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of Basic Education

These workbooks have been developed for the children of South Africa under the leadership of the Minister of Basic Education, Mrs Angie Motshetka, and the Deputy Minister of Basic Education, Mr Enver Surty.

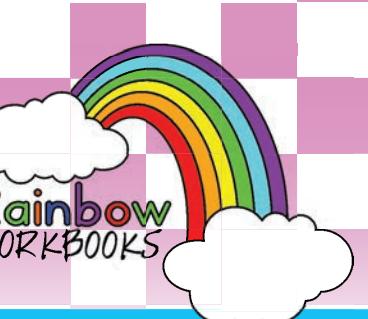
The Rainbow Workbooks form part of the Department of Basic Education's range of interventions aimed at improving the performance of South African learners in the first six grades. As one of the priorities of the Government's Plan of Action, this project has been made possible by the generous funding of the National Treasury. This has enabled the Department to make these workbooks, in all the official languages, available at no cost.

We hope that teachers will find these workbooks useful in their everyday teaching and in ensuring that their learners cover the curriculum. We have taken care to guide the teacher through each of the activities by the inclusion of icons that indicate what it is that the learner should do.

We sincerely hope that children will enjoy working through the book as they grow and learn, and that you, the teacher, will share their pleasure.

We wish you and your learners every success in using these workbooks.

ISBN 978-1-4315-0015-4



## MATHEMATICS IN ENGLISH GRADE 4 – BOOK 1

TERMS 1 & 2

ISBN 978-1-4315-0015-4

**THIS BOOK MAY  
NOT BE SOLD.**

1 2 3 4

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MATHEMATICS IN ENGLISH – Grade 4 Book 1

ISBN 978-1-4315-0015-4



**basic education**  
Department:  
Basic Education  
REPUBLIC OF SOUTH AFRICA



Name:

Class:

**MATHEMATICS IN ENGLISH**

Book 1  
Terms 1 & 2

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# A BILL OF RESPONSIBILITIES

## FOR THE YOUTH OF SOUTH AFRICA

### Preamble:

I accept the call to responsibility that comes with the many rights and freedoms that I have been privileged to inherit from the sacrifice and suffering of those who came before me. I appreciate that the rights enshrined in the Constitution of the Republic of South Africa are inseparable from my duties and responsibilities to others. Therefore I accept that with every right comes a set of responsibilities.

### MY RESPONSIBILITY IN ENSURING THE RIGHT...



South Africa is a diverse nation, and equality does not mean uniformity, or that we are all the same. Our country's motto: !KE E: XARRA // KE, meaning "Diverse people unite," calls on all of us to build a common sense of belonging and national pride, celebrating the very diversity which makes us who we are. It also calls on us to extend our friendship and warmth to all nations and all the peoples of the world in our endeavour to build a better world.

### TO LIVE IN A SAFE ENVIRONMENT

- promote sustainable development, and the conservation and preservation of the natural environment.
- protect animal and plant-life, as well as the responsibility to prevent pollution.
- not to litter, and to ensure that our homes, schools, streets and other public places are kept neat and tidy.
- in the context of climate change, we are also obliged to ensure we do not waste scarce resources like water and electricity.

### TO FREEDOM OF RELIGION, BELIEF AND OPINION

- allow others to choose and practise the religion of their choice, and to hold their own beliefs and opinions, without fear or prejudice.
- respect the beliefs and opinions of others, and their right to express these, even when we may strongly disagree with these beliefs and opinions. That is what it means to be a free democracy.

### TO FAMILY OR PARENTAL CARE

- honour and respect my parents, and to help them.
- to be kind and loyal to my family, to my brothers and sisters, my grandparents and all my relatives.
- recognise that love means long-term commitment, and the responsibility to establish strong and loving families.

### TO EDUCATION

- attend school regularly, to learn, and to work hard.
- cooperate respectfully with teachers and fellow learners.
- adhere to the rules and the Code of Conduct of the school.

### AND PLACES ON MY TEACHERS THE RESPONSIBILITY TO:

- promote and reflect the culture of learning and teaching in giving effect to this right.
- to eliminate unprofessional behaviour.

### TO HUMAN DIGNITY

- treat people with reverence, respect and dignity as we all belong to the human race.
- to be kind, compassionate and sensitive to every human being, including greeting them warmly and speaking to them courteously.

### TO WORK

- work hard and do our best in everything we do.
- recognise that living a good and successful life involves hard work, and that anything worthwhile only comes with effort.
- this right must never be used for exploitation by exposing children to child labour.

### TO OWN PROPERTY

- respect the property of others.
- take pride in and protect both private and public property, and not to take what belongs to others.
- give generously to charity and good causes, where I am able to do so.

### TO CITIZENSHIP

- to participate actively in the activities of the community and affairs of the country.
- obey the laws of our country, ensuring that others do so as well.
- contribute in every possible way to making South Africa a great country.

### TO LIFE

- protect and defend the lives of others.
- not endanger the lives of others by carrying dangerous weapons or by acting recklessly or disobeying our rules and laws.
- live a healthy life, by exercising, eating correctly, by not smoking, taking alcohol, or taking drugs, or indulging in irresponsible behaviour that may result in my being infected or infecting others with diseases such as HIV and AIDS.

### AND CONCURRENTLY PLACES ON MY PARENTS AND CAREGIVERS THE RESPONSIBILITY TO:

- ensure that I attend school and receive their support.
- ensure that I participate in school activities.
- create a home environment conducive to studying.

Conclusion: I accept the call of this Bill of Responsibilities, and commit to taking my rightful place as an active, responsible citizen of South Africa. By assuming these responsibilities I will contribute to building the kind of society which will make me proud to be a South African.

This Bill outlines the responsibilities that flow from each of the rights enshrined in the Constitution of the Republic of South Africa.



Grade

4

# Mathematics

## Book 1

1 Revision worksheets: R1 to R16

Key concepts from Grade 3

2 Worksheets: 1 to 64

## Book 2

3 Worksheets: 65 to 144

Name:

ENGLISH

# The structure of a worksheet

**Worksheet number  
(Revision R1 to R16,  
Ordinary 1 to 144)**

**Worksheet title**

**Topic introduction**  
(Text and pictures to help you think about and discuss the topic of the worksheet.)

**Term indicator**  
(There are forty worksheets per term.)

**Questions**

**Colour code for content area**

Content	Side bar colour
Revision	Purple
Number	Turquoise
Patterns and functions (algebra)	Electric blue
Space and shape (geometry)	Orange
Measurement	Green
Data handling	Red

**Language colour code:  
Afrikaans (Red), English (Blue)**

**Example frame (in yellow)**

**Fun/challenge/problem solving activity**  
(This is an end of worksheet activity that may include fun or challenging activities that can also be shared with parents or brothers and sisters at home.)

**Teacher assessment rating,  
signature and date**

**Worksheet title:** Adding by filling the tens

**Term 2**

**Color-coded content area:**

- Revision: Purple
- Number: Turquoise
- Patterns and functions (algebra): Electric blue
- Space and shape (geometry): Orange
- Measurement: Green
- Data handling: Red

**Language color key:** Afrikaans (Red), English (Blue)

**Example frame (in yellow):**

**Fun/challenge/problem solving activity:**

7 894 people came to see a concert. There were 68 security guards. How many people were in the stadium?

**Teacher assessment rating, signature and date:**



Grade

4

Mathematics

PART

1

# Revision

Key concepts from Grade 3

WORKSHEETS R1 TO R16

Name:

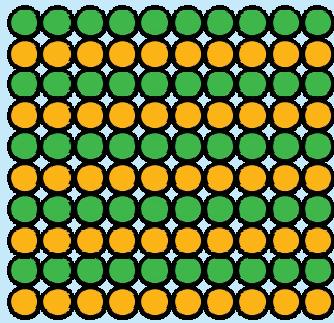
ENGLISH  
Book  
1

# Base Ten Counting

The first 16 worksheets are revision activities. They also summarise important concepts you need in Grade 4.



How many beads are there? See how fast can you count them.



1. Write down how many beads you counted?

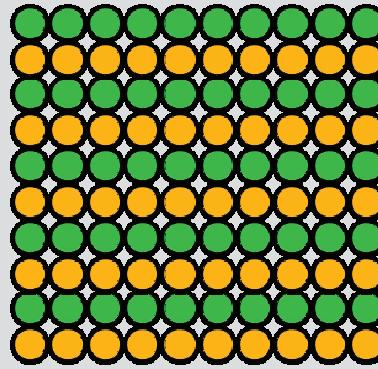
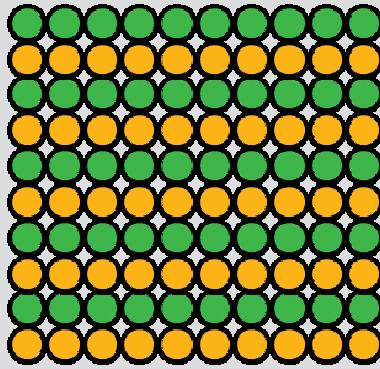
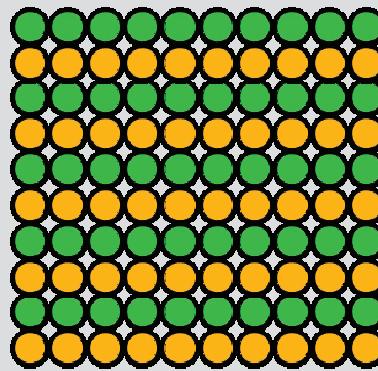
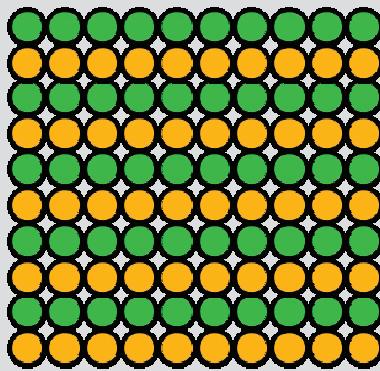
a.

b.

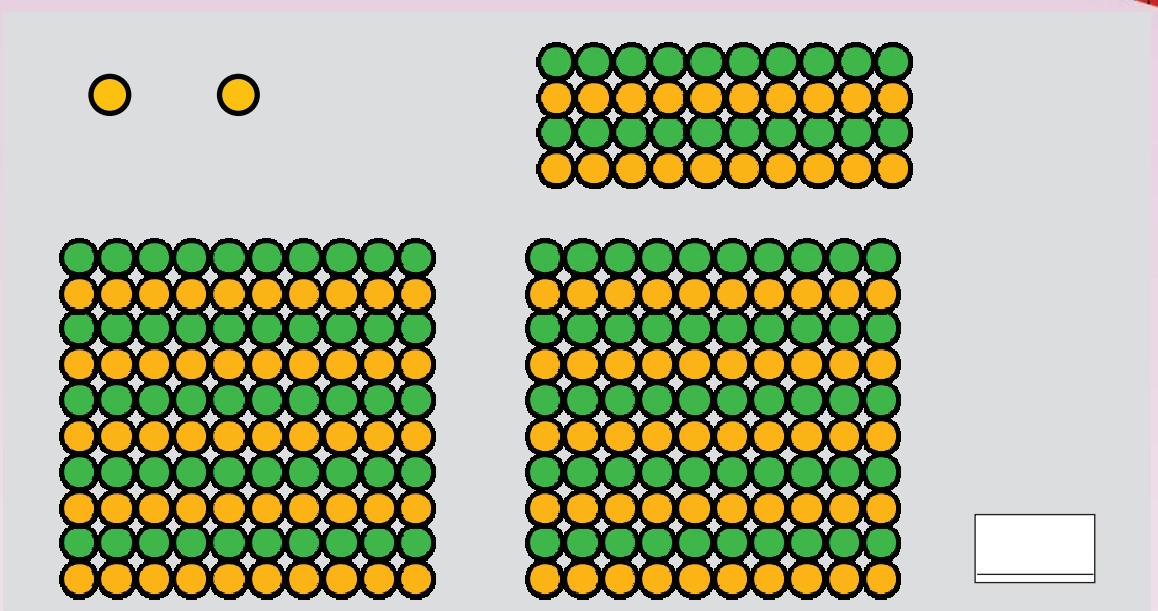
c.



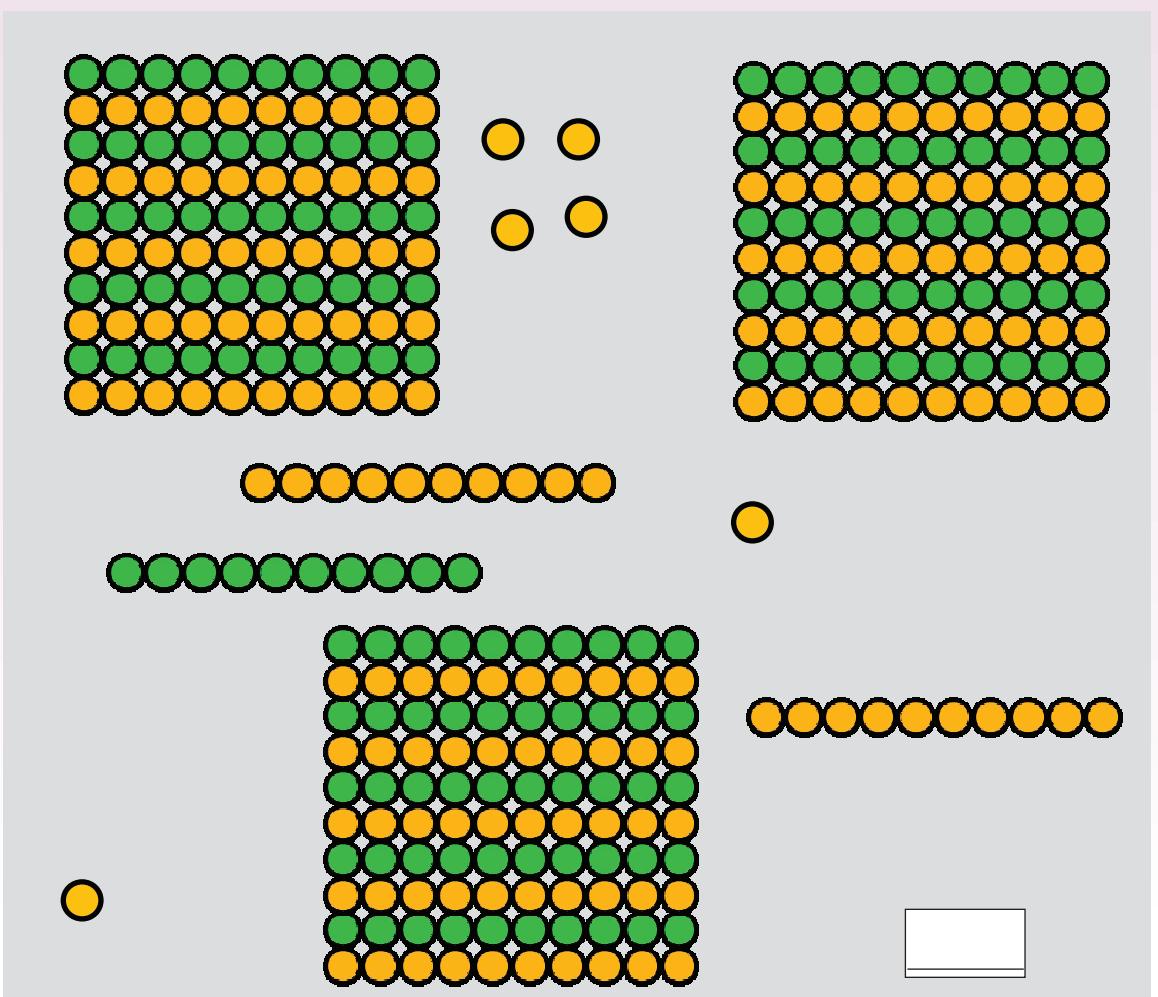
I wonder what is the fastest way to count? Can you help me?



d.



e.



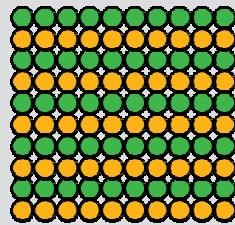
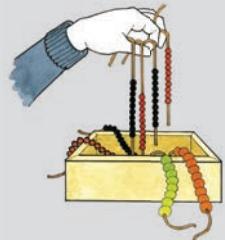
continued ➞



## Base Ten Counting continued

2. Write down how many beads there are.

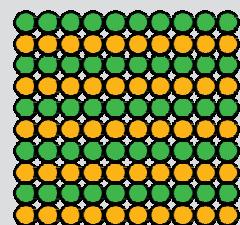
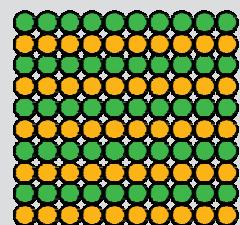
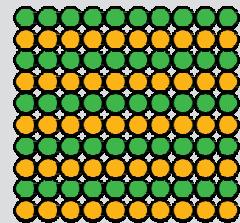
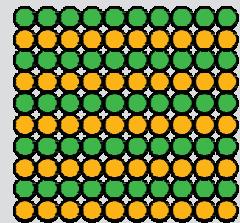
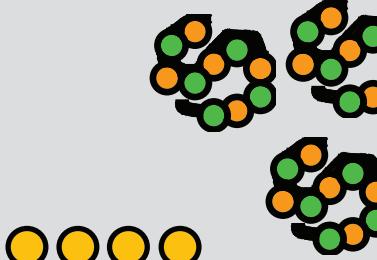
a.



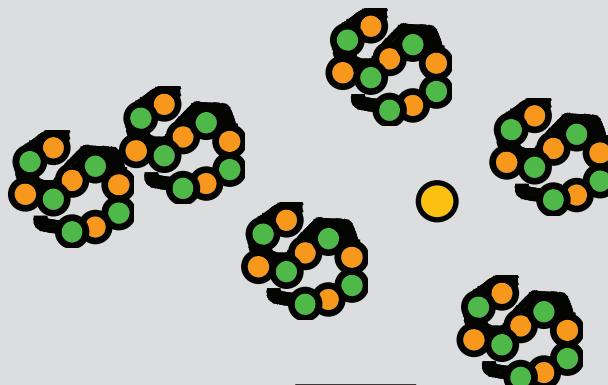
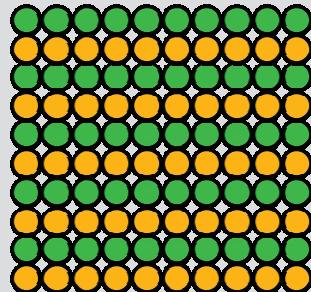
I made a nice brooch with my 111 beads.

These blocks of beads have the same number in each as the block above. Write down the total number of beads.

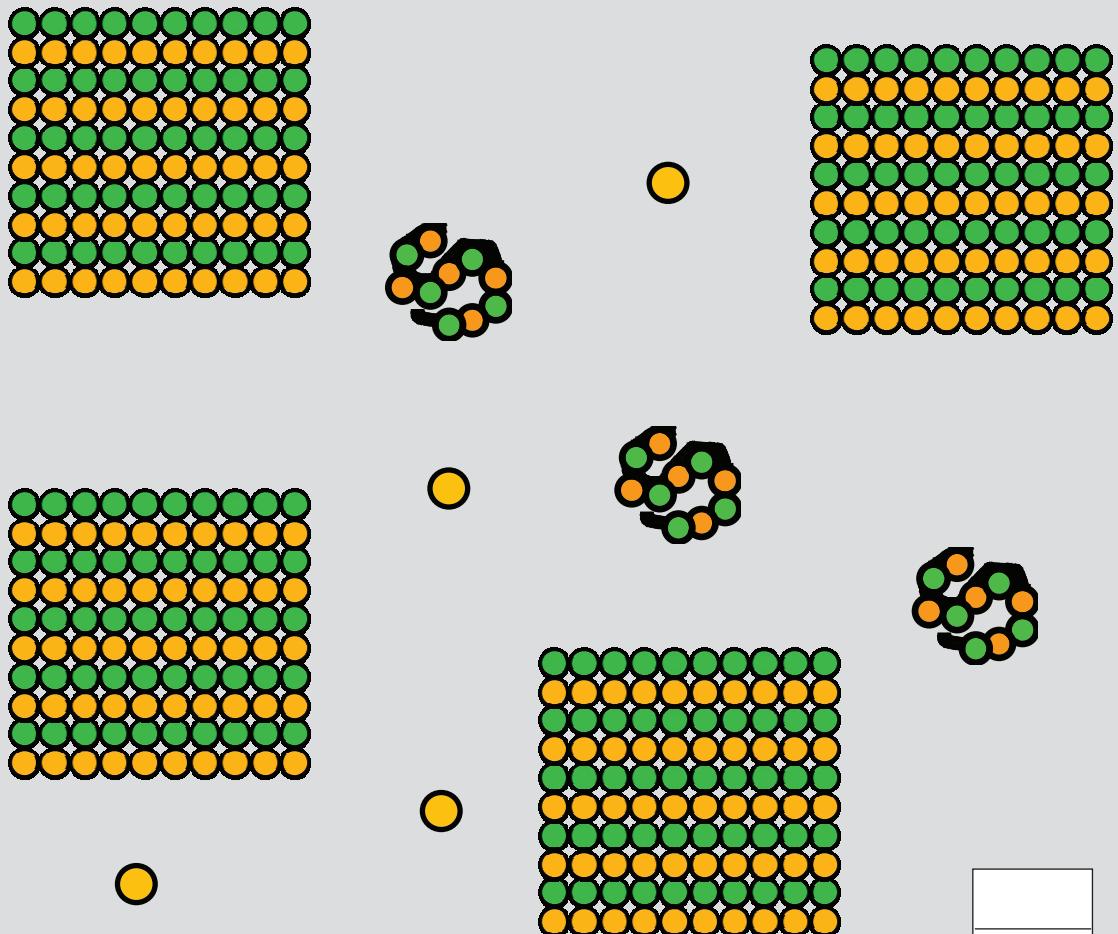
b.



c.



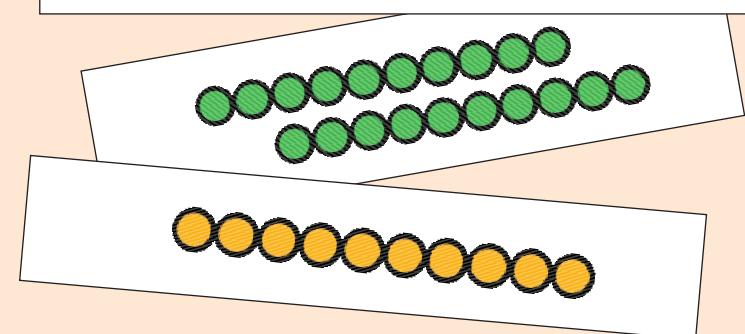
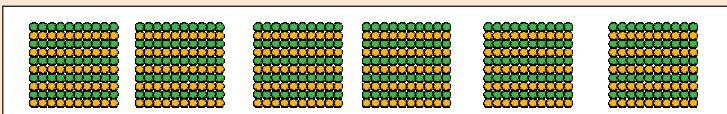
d.



### How quick are you?

#### What you need:

- Cut-out 1.



#### What to do:

- Play in pairs.
- Cut out the cards from Cut-out sheet 1 at the back of the book.
- Place them face down on your desk.
- You choose five cards and your partner chooses five.
- See who is first to give the total number of beads on the cards.
- Check your partner's answer.
- Do the same with 6/7/8/9/ and 10 cards.
- The person with the most correct answers is the winner.

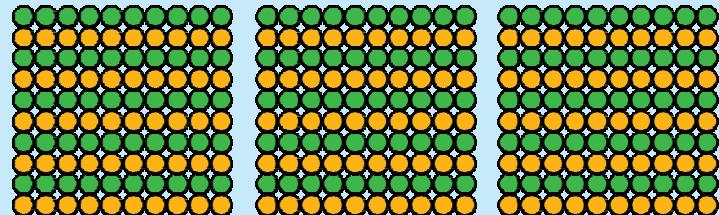


R2

# Numbers 0 to 1 000

What number will these cards make?

3 0 0



325

In words it is

2 0



5



Three hundred and twenty-five

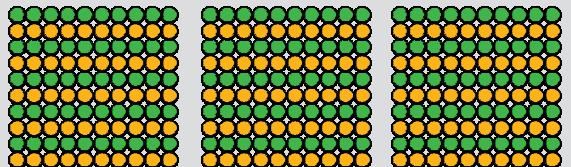
1. Match column A with column B.

Column A

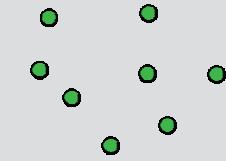
a.

3 0 0

8



Column B

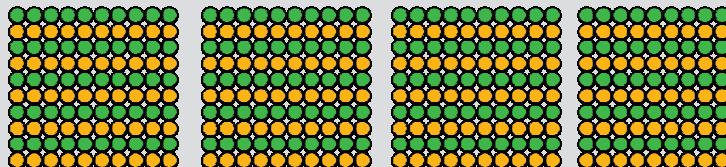


b.

1 0 0

4 0

3

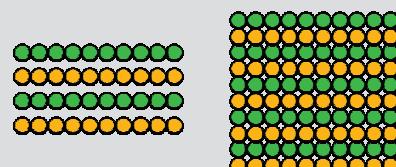


c.

4 0 0

1 0

2



2. Write the number in the correct column:

	Number cards			Hundreds	Tens	Units
a.	2 0 0	5 0	3	2	5	3
b.	4 0 0	6 0	5			
c.	1 0 0	2 0	1 0	9		
d.	9	3 0 0	1 0			
e.	4 0	2	3	4 0 0		

### 3. Complete the following. We have done the first one to guide you.

a.  $723 = 7$  hundreds + 2 tens + 3 units

b.  $648 =$  \_\_\_\_\_

c.  $521 =$  \_\_\_\_\_

d.  $704 =$  \_\_\_\_\_

e.  $230 =$  \_\_\_\_\_

### 4. The first one is done for you. Write the other numbers also in expanded notation.

a.  $654 = 600 + 50 + 4$

b.  $203 =$  \_\_\_\_\_

c.  $745 =$  \_\_\_\_\_

d.  $650 =$  \_\_\_\_\_

e.  $605 =$  \_\_\_\_\_

f.  $475 =$  \_\_\_\_\_

### 5. Write the following in words.

a. 54 \_\_\_\_\_

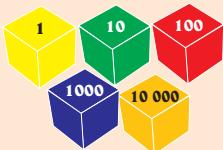
b. 308 \_\_\_\_\_

c. 847 \_\_\_\_\_

#### What is the size of your number:

##### What you need:

- Cut-out 2
- Cut-out 3: Cut and fold the dice (units to hundreds)



##### What to do:

- Play in pairs.
- Each player roles a hundreds dice (red, blue or orange dice), a tens (green dice) and a units (yellow dice) dice.
- Each player makes his or her own 3-digit number with the number cards.
- The winner is the player with the greatest number.
- Do the same activity five times.

Remember  
zero is a  
place holder.



Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

# Addition and Subtraction to 999

What do addition and subtraction mean?



What does  
+  
mean?



What does  
-  
mean?



## 1. Complete the pattern:

a.	<b>200</b>	<b>300</b>	<b>400</b>	<b> </b>	<b> </b>	<b> </b>
	+ 100	+ 100	+ 100			
b.	<b>200</b>	<b>180</b>	<b>160</b>	<b> </b>	<b> </b>	<b> </b>
	- 20	- 20	- 20			
c.	<b>50</b>	<b>100</b>	<b>150</b>	<b> </b>	<b> </b>	<b> </b>
	+ 50	+ 50	+ 50			
d.	<b>60</b>	<b>90</b>	<b>120</b>	<b> </b>	<b> </b>	<b> </b>
	+ 30	+ 30	+ 30			
e.	<b>500</b>	<b>460</b>	<b>420</b>	<b> </b>	<b> </b>	<b> </b>
	- 40	- 40	- 40			

Examples :

Example 1:  $612 + 56$

<b>612</b>	<b>+</b>	<b>56</b>		
<b>600</b>	<b>10</b>	<b>2</b>	<b>50</b>	<b>6</b>

$$\begin{aligned}
 612 + 56 \\
 &= 600 + 10 + 50 + 2 + 6 \\
 &= 600 + 60 + 8 \\
 &= 668
 \end{aligned}$$

Example 2:  $389 + 74$

<b>389</b>	<b>+</b>	<b>74</b>		
<b>300</b>	<b>80</b>	<b>9</b>	<b>70</b>	<b>4</b>

$$\begin{aligned}
 389 + 74 \\
 &= 300 + 80 + 70 + 9 + 4 \\
 &= 300 + 150 + 13 \\
 &= 300 + 100 + 50 + 10 + 3 \\
 &= 400 + 60 + 3 \\
 &= 463
 \end{aligned}$$

## 2. Add the following using the given example.

a.  $124 + 35$

**124** + **35**

--	--	--	--	--

$$124 + 35$$

$$= 100 + 20 + 30 + 4 + 5$$

$$= \boxed{\hspace{2cm}}$$

$$= \boxed{\hspace{2cm}}$$

b.  $678 + 25$

**678** + **25**

--	--	--	--	--

$$678 + 25$$

$$= 600 + 70 + 20 + 8 + 5$$

$$= \boxed{\hspace{2cm}}$$

$$= \boxed{\hspace{2cm}}$$

$$= \boxed{\hspace{2cm}}$$

### Examples:

Example 1:  $356 - 3$

**356** - **3**

--	--	--

$$356 - 3$$

$$= 300 + 50 + (6 - 3)$$

$$= 300 + 50 + 3$$

$$= 353$$

Example 2:  $241 - 6$

**241** - **6**

--	--	--

$$241 - 6$$

$$= 200 + 40 + (1 - 6)$$

$$= 200 + 30 + (11 - 6)$$

$$= 200 + 30 + 5$$

$$= 235$$

## 3. Subtract the following using the given example.

a.  $659 - 5$

**659** - **5**

--	--	--

$$659 - 5$$

$$= 600 + 50 + (9 - 5)$$

$$= \boxed{\hspace{2cm}}$$

$$= \boxed{\hspace{2cm}}$$

b.  $392 - 8$

**392** - **8**

--	--	--

$$392 - 8$$

$$= 300 + 90 + (2 - 8)$$

$$= \boxed{\hspace{2cm}}$$

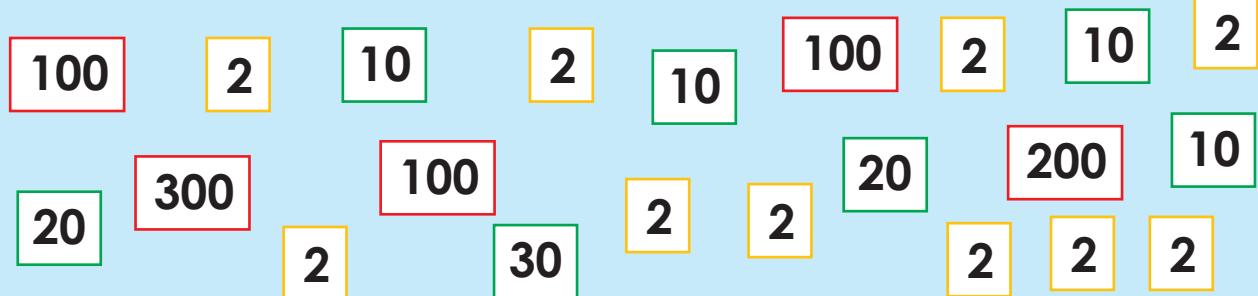
$$= \boxed{\hspace{2cm}}$$

$$= \boxed{\hspace{2cm}}$$



# More Addition and Subtraction to 999

How fast can you add the following?



### Examples:

#### Example 1:

$$212 + 456$$

$$\boxed{200} \ \boxed{10} \ \boxed{2} + \boxed{400} \ \boxed{50} \ \boxed{6}$$

$$= 200 + 400 + 10 + 50 + 2 + 6$$

$$= 600 + 60 + 8$$

$$= 668$$

#### Example 2:

$$124 + 387$$

$$\boxed{100} \ \boxed{20} \ \boxed{4} + \boxed{300} \ \boxed{80} \ \boxed{7}$$

$$= 100 + 300 + 20 + 80 + 4 + 7$$

$$= 400 + 100 + 11$$

$$= 500 + 10 + 1$$

$$= 511$$

### 1. Add the following using the examples above.

a.  $234 + 362$

$$\boxed{\phantom{0}} \ \boxed{\phantom{0}} \ \boxed{\phantom{0}} + \boxed{\phantom{0}} \ \boxed{\phantom{0}} \ \boxed{\phantom{0}}$$

$$= 200 + 300 + 30 + 60 + 4 + 2$$

$$= \boxed{\phantom{000000}}$$

$$= \boxed{\phantom{000000}}$$

b.  $644 + 213$

$$\boxed{\phantom{0}} \ \boxed{\phantom{0}} \ \boxed{\phantom{0}} + \boxed{\phantom{0}} \ \boxed{\phantom{0}} \ \boxed{\phantom{0}}$$

$$= \boxed{\phantom{000000}}$$

$$= \boxed{\phantom{000000}}$$

$$= \boxed{\phantom{000000}}$$

c.  $396 + 145$

$$\boxed{\phantom{0}} \ \boxed{\phantom{0}} \ \boxed{\phantom{0}} + \boxed{\phantom{0}} \ \boxed{\phantom{0}} \ \boxed{\phantom{0}}$$

$$= 300 + 100 + 90 + 40 + 6 + 5$$

$$= \boxed{\phantom{000000}}$$

$$= \boxed{\phantom{000000}}$$

$$= \boxed{\phantom{000000}}$$

$$= \boxed{\phantom{000000}}$$

d.  $247 + 356$

$$\boxed{\phantom{0}} \ \boxed{\phantom{0}} \ \boxed{\phantom{0}} + \boxed{\phantom{0}} \ \boxed{\phantom{0}} \ \boxed{\phantom{0}}$$

$$= \boxed{\phantom{000000}}$$

$$= \boxed{\phantom{000000}}$$

$$= \boxed{\phantom{000000}}$$

$$= \boxed{\phantom{000000}}$$

$$= \boxed{\phantom{000000}}$$

## Examples:

### Example 1:

$$784 - 323$$

**700** **80** **4** - **300** **20** **3**

$$\begin{aligned} &= (700 - 300) + (80 - 20) + (4 - 3) \\ &= 400 + 60 + 1 \\ &= 461 \end{aligned}$$

### Example 2:

$$546 - 288$$

**500** **40** **6** - **200** **80** **8**

$$\begin{aligned} &= (500 - 200) + (40 - 80) + (6 - 8) \\ &= 300 + (30 - 80) + (16 - 8) \\ &= 200 + (130 - 80) + (16 - 8) \\ &= 200 + 50 + 8 \\ &= 258 \end{aligned}$$

## 2. Subtract the following using the given example.

a.  $486 - 214$

**\_\_\_\_\_** **\_\_\_\_\_** **\_\_\_\_\_** - **\_\_\_\_\_** **\_\_\_\_\_** **\_\_\_\_\_**

$$\begin{aligned} &= (400 - 200) + (80 - 10) + (6 - 4) \\ &= \boxed{\phantom{000}} \\ &= \boxed{\phantom{000}} \\ &= \boxed{\phantom{000}} \end{aligned}$$

b.  $698 - 453$

**\_\_\_\_\_** **\_\_\_\_\_** **\_\_\_\_\_** - **\_\_\_\_\_** **\_\_\_\_\_** **\_\_\_\_\_**

$$\begin{aligned} &= \boxed{\phantom{000}} \\ &= \boxed{\phantom{000}} \\ &= \boxed{\phantom{000}} \end{aligned}$$

c.  $384 - 267$

**\_\_\_\_\_** **\_\_\_\_\_** **\_\_\_\_\_** - **\_\_\_\_\_** **\_\_\_\_\_** **\_\_\_\_\_**

$$\begin{aligned} &= (300 - 200) + (80 - 60) + (4 - 7) \\ &= \boxed{\phantom{000}} \end{aligned}$$

d.  $413 - 168$

**\_\_\_\_\_** **\_\_\_\_\_** **\_\_\_\_\_** - **\_\_\_\_\_** **\_\_\_\_\_** **\_\_\_\_\_**

$$\begin{aligned} &= \boxed{\phantom{000}} \\ &= \boxed{\phantom{000}} \\ &= \boxed{\phantom{000}} \\ &= \boxed{\phantom{000}} \\ &= \boxed{\phantom{000}} \end{aligned}$$



What is the size of your number:

#### What you need:

- Use the 10s and 100s dice made in the previous activity.
- Piece of paper.



#### What to do:

- Roll the tens (green) dice.
- Add the number landed on to the first number on the blue card. Write your addition sum on a piece of paper.
- Do the same with the next four numbers on the blue card.
- Repeat the activity using both the 10s and 100s dice.
- Learners check each other's addition sums.
- The winner is the person with the most correct answers.

132  
423  
400  
675  
897



Repeat the activity using subtraction.



Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

R5

# Multiplication



We have six beads repeated four times.

This is the same as

$$6 + 6 + 6 + 6 \quad \text{which is the same as:}$$

$$6 \times 4$$

## 1. Complete the patterns:

- a. 2, 4, 6, , , , , , , ,
- b. 3, 6, 9, , , , , , , ,
- c. 5, 10, 15, , , , , , , ,
- d. 4, 8, 12, , , , , , , ,
- e. 10, 20, 30, , , , , , , ,

## 2. Complete the table:

Diagram	Addition sum	Words	Multiplication sum
	$4 + 4 + 4 = 12$		
		Four groups of five	
			$3 \times 5 = 15$

### 3. Match the cats with the mice.

a. **9** 



**7 x 3**

b. **24** 



**3 x 3**

c. **21** 



**6 x 4**

d. **32** 



**5 x 2**

e. **10** 



**8 x 4**

### 4. Fill in the **x** and **=** in the right places.

a.  $6 \square 3 \square 18$

b.  $16 \square 4 \square 4$

c.  $28 \square 7 \square 4$

d.  $6 \square 6 \square 36$

e.  $12 \square 3 \square 4$

f.  $7 \square 7 \square 49$

g.  $18 \square 2 \square 9$

h.  $4 \square 12 \square 48$

i.  $54 \square 9 \square 6$

j.  $12 \square 7 \square 84$

k.  $50 \square 5 \square 10$

l.  $27 \square 3 \square 9$

m.  $12 \square 2 \square 24$

n.  $9 \square 9 \square 81$

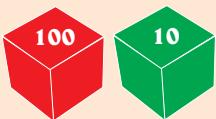
o.  $60 \square 5 \square 12$

**X**

In one minute I can ...

**What you need:**

- Use the units and tens dice made in the previous activity from Cut-out 3.
- Piece of paper.



**What to do:**

- Roll the units and tens dice. Multiply the two numbers. Write down the multiplication sum with its answer.
- Repeat doing this until your teacher says stop after a minute.
- Give your multiplication sum to your friend to mark.
- The winner is the person with the most correct answers.

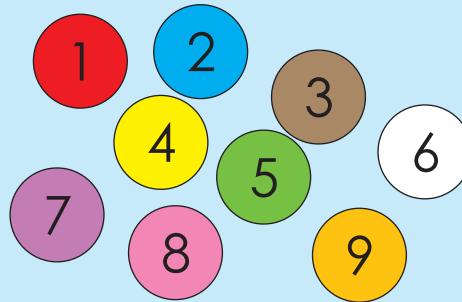


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Date:

# More Multiplication

See how many sums you can make by multiplying a number from the square by a number in a circle.

1	2	3
4	5	6
7	8	9



## 1. Complete the table.

x	1	2	3	4	5	6	7	8	9
1	$1 \times 1 =$ [ ]	$1 \times 2 =$ [ ]	$1 \times 3 =$ [ ]	$1 \times 4 =$ [ ]	$1 \times 5 =$ [ ]	$1 \times 6 =$ [ ]	$1 \times 7 =$ [ ]	$1 \times 8 =$ [ ]	$1 \times 9 =$ [ ]
2	$2 \times 1 =$ [ ]	$2 \times 2 =$ [ ]	$2 \times 3 =$ [ ]	$2 \times 4 =$ [ ]	$2 \times 5 =$ [ ]	$2 \times 6 =$ [ ]	$2 \times 7 =$ [ ]	$2 \times 8 =$ [ ]	$2 \times 9 =$ [ ]
3	$3 \times 1 =$ [ ]	$3 \times 2 =$ [ ]	$3 \times 3 =$ [ ]	$3 \times 4 =$ [ ]	$3 \times 5 =$ [ ]	$3 \times 6 =$ [ ]	$3 \times 7 =$ [ ]	$3 \times 8 =$ [ ]	$3 \times 9 =$ [ ]
4	$4 \times 1 =$ [ ]	$4 \times 2 =$ [ ]	$4 \times 3 =$ [ ]	$4 \times 4 =$ [ ]	$4 \times 5 =$ [ ]	$4 \times 6 =$ [ ]	$4 \times 7 =$ [ ]	$4 \times 8 =$ [ ]	$4 \times 9 =$ [ ]
5	$5 \times 1 =$ [ ]	$5 \times 2 =$ [ ]	$5 \times 3 =$ [ ]	$5 \times 4 =$ [ ]	$5 \times 5 =$ [ ]	$5 \times 6 =$ [ ]	$5 \times 7 =$ [ ]	$5 \times 8 =$ [ ]	$5 \times 9 =$ [ ]
6	$6 \times 1 =$ [ ]	$6 \times 2 =$ [ ]	$6 \times 3 =$ [ ]	$6 \times 4 =$ [ ]	$6 \times 5 =$ [ ]	$6 \times 6 =$ [ ]	$6 \times 7 =$ [ ]	$6 \times 8 =$ [ ]	$6 \times 9 =$ [ ]
7	$7 \times 1 =$ [ ]	$7 \times 2 =$ [ ]	$7 \times 3 =$ [ ]	$7 \times 4 =$ [ ]	$7 \times 5 =$ [ ]	$7 \times 6 =$ [ ]	$7 \times 7 =$ [ ]	$7 \times 8 =$ [ ]	$7 \times 9 =$ [ ]
8	$8 \times 1 =$ [ ]	$8 \times 2 =$ [ ]	$8 \times 3 =$ [ ]	$8 \times 4 =$ [ ]	$8 \times 5 =$ [ ]	$8 \times 6 =$ [ ]	$8 \times 7 =$ [ ]	$8 \times 8 =$ [ ]	$8 \times 9 =$ [ ]
9	$9 \times 1 =$ [ ]	$9 \times 2 =$ [ ]	$9 \times 3 =$ [ ]	$9 \times 4 =$ [ ]	$9 \times 5 =$ [ ]	$9 \times 6 =$ [ ]	$9 \times 7 =$ [ ]	$9 \times 8 =$ [ ]	$9 \times 9 =$ [ ]

**2. Solve the following problems. Use the example to guide you.  
You will need extra sheets of paper to solve the problems.**

**Example:**

The problem: A parent gives nine bags of soccer balls to a school. Each bag contains 6 soccer balls. How many soccer balls does the parent give away?

What is the question? How many soccer balls does the parent give away?

What are the numbers? 9 (bags) and 6 (balls per bag)

What key words tell you which basic operation (+, -, × or ÷) to use? Each bag contains.

What operation must be used? Multiplication.

Draw a picture.



Write down a number sentence.  $9 \times 6 = \boxed{\phantom{00}}$

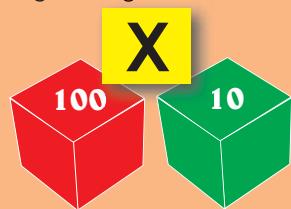
Show the calculation.  $9 \times 6 = 54$

Answer: The parent gives 54 soccer balls away.

- A farmer plants 8 rows of apple trees. There are 7 apple trees in each row. How many apple trees are there in total?
- Ann's mother buys 5 pizzas. Each pizza is cut into four slices. How many slices are there altogether?
- Mandla has three friends. Each of them has twenty sweets. How many sweets do they all have together?

**In one minute I can ...**

Play the previous game again.



Sign:  
Date:

# Number patterns

Talk about the patterns in the table below.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

1. What will the next number be?

- a. 40, 45, 50,
- b. 85, 95, 105, , ,
- c. 378, 379, 380, , ,
- d. 405, 410, 415, , ,
- e. 599, 598, 597, , ,
- f. 600, 610, 620, , ,
- g. 775, 780, 785, , ,
- h. 800, 802, 804, , ,

2. Complete the following patterns.

- |                      |                     |                       |
|----------------------|---------------------|-----------------------|
| a. $3 + 5 = \square$ | $30 + 50 = \square$ | $300 + 500 = \square$ |
| b. $4 + 2 = \square$ | $40 + 20 = \square$ | $400 + 200 = \square$ |
| c. $3 + 6 = \square$ | $30 + 60 = \square$ | $300 + 600 = \square$ |
| d. $5 + 1 = \square$ | $50 + 10 = \square$ | $500 + 100 = \square$ |
| e. $7 + 2 = \square$ | $70 + 20 = \square$ | $700 + 200 = \square$ |

### 3. What will you put in the place of the orange?

a.  $4 + 3 = \text{orange} + 4$

3

b.  $6 + 2 = \text{orange} + 6$

c.  $5 + 4 = \text{orange} + 5$

d.  $\text{orange} + 3 = 3 + 5$

e.  $2 + \text{orange} = 7 + 2$

f.  $8 + 1 = 1 + \text{orange}$

g.  $6 + \text{orange} = 3 + 6$

h.  $9 + 0 = \text{orange} + 9$

i.  $7 + \text{orange} = 1 + 7$

j.  $\text{orange} + 6 = 6 + 1$

### Pattern fun

How fast can you get the answer?

2	6	11	15
4	12	22	30
6	18	33	45

### Coloured cards...

Look at the cards. What do you notice?

**4 + 3**

**5 + 6**

**4 + 5**

**3 + 4**

**3 + 9**

**8 + 1**

**7 + 2**

**9 + 3**

**5 + 4**

**6 + 5**

**1 + 8**



Date:

R8

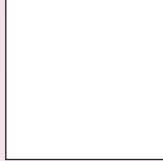
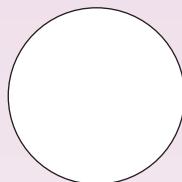
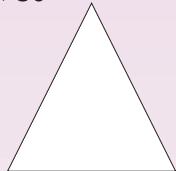
# Fractions

Use fractions to describe the pictures.

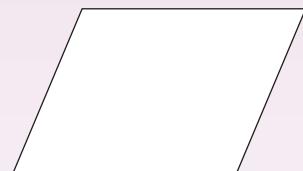
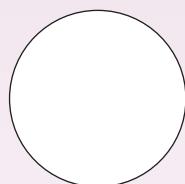
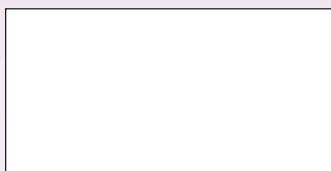


1. Divide these shapes into:

Halves



Quarters



2. Colour in the following fractions.

a. two quarters ( $\frac{2}{4}$ ) =

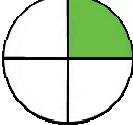
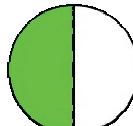
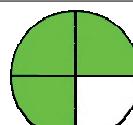
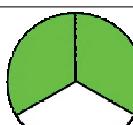
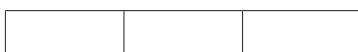
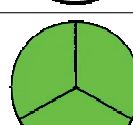
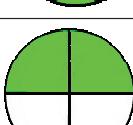
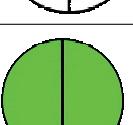
b. one quarter ( $\frac{1}{4}$ ) =

c. two thirds ( $\frac{2}{3}$ ) =

d. two halves ( $\frac{2}{2}$ ) =

e. three thirds ( $\frac{3}{3}$ ) =

3. Complete the table below.

Fraction circle	Fraction that is green.	Colour the same fraction on this diagram.
a. 	one quarter ( $\frac{1}{4}$ )	 one quarter ( $\frac{1}{4}$ ) is green
b. 		
c. 		
d. 		
e. 		
f. 		
g. 		
h. 		

**Fractions dice and strips**

Throw a dice.

Then take a fraction strip from Cut-out 4 that matches the fraction on the face of the dice.

If the face is  $\frac{1}{4}$ , take a quarter strip. If you are correct keep the fraction strip.

At the end count your fraction strips.

The winner is the person with the most fractions strips.



# More Fractions

Use fractions to describe the pictures.



= one quarter

= one quarter

= one quarter

= one quarter



1. Share the sweets. What fraction will each child get?

Children	Total number of sweets	What fraction will each child get?	How many sweets will each child get?



**2. You divide 16 sweets between four children. What fraction will each child get?**

Continue on an extra sheet of paper

**3. You divide 18 sweets between two children. What fraction will each get?**

Continue on an extra sheet of paper

**4. Four children each get  $\frac{1}{4}$  of 28 sweets. How many sweets does each child get?**

Continue on an extra sheet of paper

**Fractions dice and strips**

Play this game again. See the previous lesson.

Sign:

Date:

R10

## Money

Identify all the coins and notes:



1. Tick the coins that are equal to the amount shown:

a. R5,40



b. R3,20



c. R7,50



d. R9,45



2. Colour the blocks:

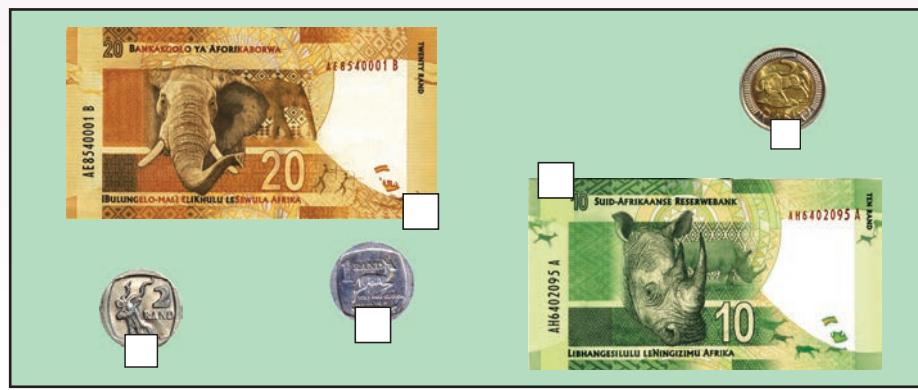
a. R2 = Green

b. R1 = Blue

c. R5 = Red

d. R10 = Purple

e. R20 = Yellow



### 3. Tick the correct change.

a. I bought sweets for R3,50. I paid with a R5.



b. I bought sweets for R4,89. I paid with a R5,00.



c. I bought sweets for R7,99. I paid with R5, R2 and R2 coin.



d. I bought sweets for 910c. I paid with R10,00.



#### Coin rubbing and problem solving

- a. Take some coins.

Make a coin rubbing by putting a coin under a piece of paper and rubbing over the top with a crayon/pencil. Cut out the coins and make five of your own sums.

- b. Grandmother gives Palesa R12. Palesa wants to save a third of the money. How much money must she save?



Sign:

Date:

R11

# Length

How long is a metre? Can you take a step that is one metre long? How many 30 cm rulers will make 1 metre?



Term 1

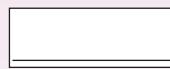
1. If this worm is one metre long, what is the distance from the boy to the girl?



a.



b.



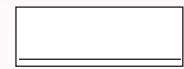
c.



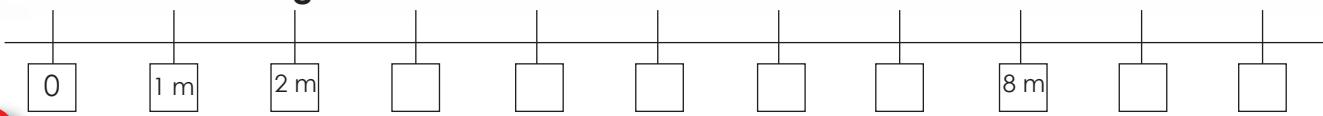
d.



e.

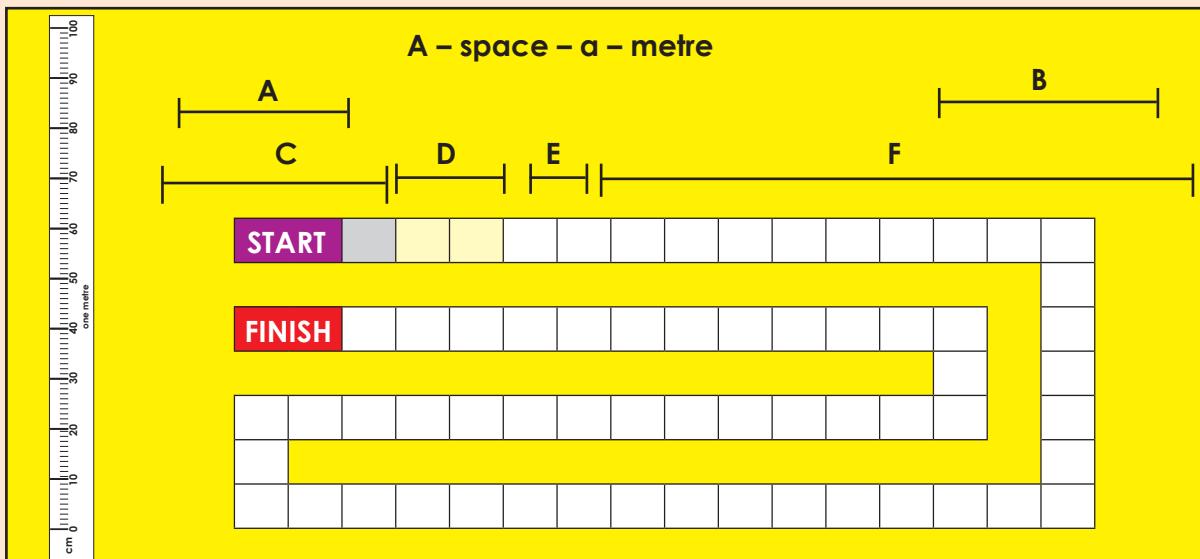


2. Fill in the missing numbers on this measured line.

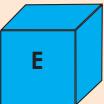
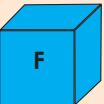
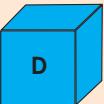
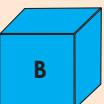
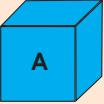
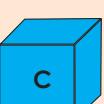
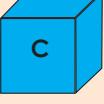
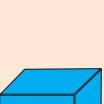
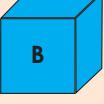
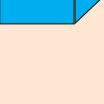
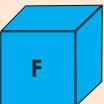


## Length game

### 3. Use the game board to answer the questions:



We have already rolled the dice for you. The length of the line is the number of spaces you moved. We did the first two for you, E=1 and D = 2, so you are standing on square 3 now. Carry on. Colour the blocks as you go. The first one to finish wins.

 <b>E</b>	Spaces moved: <input type="text" value="1"/> 	metres moved: <input type="text" value="1"/>	 <b>F</b>	Spaces moved: <input type="text"/>	metres moved: <input type="text"/>
 <b>D</b>	Spaces moved: <input type="text" value="2 + 1"/>	metres moved: <input type="text" value="3"/>	 <b>B</b>	Spaces moved: <input type="text"/>	metres moved: <input type="text"/>
 <b>A</b>	Spaces moved: <input type="text"/>	metres moved: <input type="text"/>	 <b>C</b>	Spaces moved: <input type="text"/>	metres moved: <input type="text"/>
 <b>C</b>	Spaces moved: <input type="text"/>	metres moved: <input type="text"/>	 <b>F</b>	Spaces moved: <input type="text"/>	metres moved: <input type="text"/>
 <b>B</b>	Spaces moved: <input type="text"/>	metres moved: <input type="text"/>	 <b>A</b>	Spaces moved: <input type="text"/>	metres moved: <input type="text"/>
 <b>F</b>	Spaces moved: <input type="text"/>	metres moved: <input type="text"/>			

How many more spaces must you move to get to the finish?



R12

## Area

Look at the kitchen floor.  
How many tiles did I use to  
tile the floor?



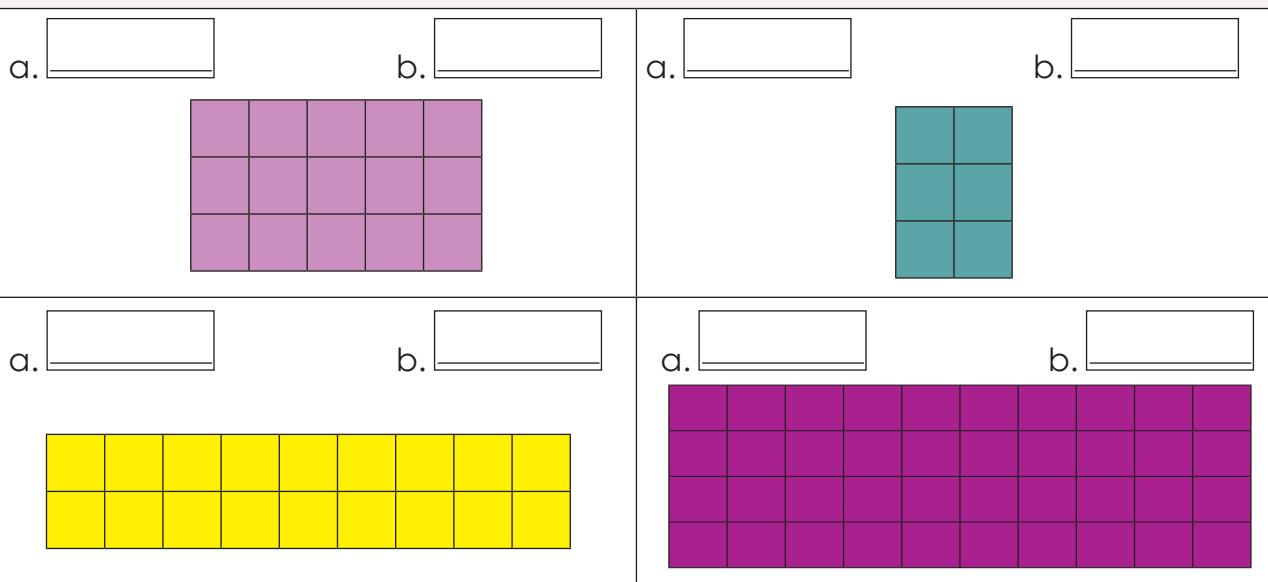
Term 1

## 1. Answer the following questions:

- How many tiles did you use to tile the kitchen floor?
- How many white tiles did you use to tile the kitchen floor?
- How many black tiles did you use to tile the kitchen floor?
- The girl takes one step per tile. How many steps will she take to go round the edges of the room on the tiles?

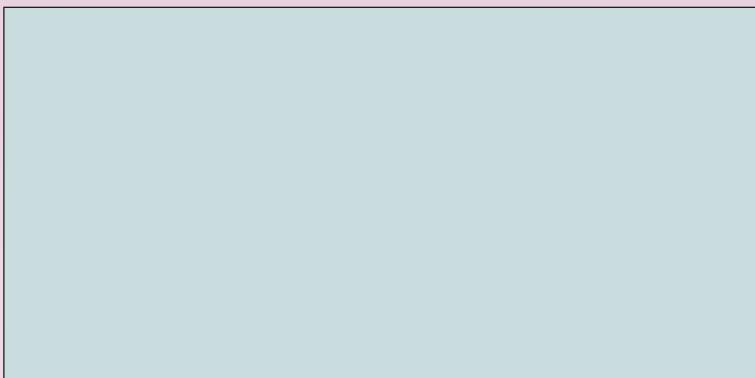
## 2. a. How many tiles are used to tile these floors?

- What is the distance in tiles around the edges of each floor?



3. Use Cut-out 5. You also need glue and a pair of scissors.

Tile all the floors. Try and create a beautiful pattern with your tiles.

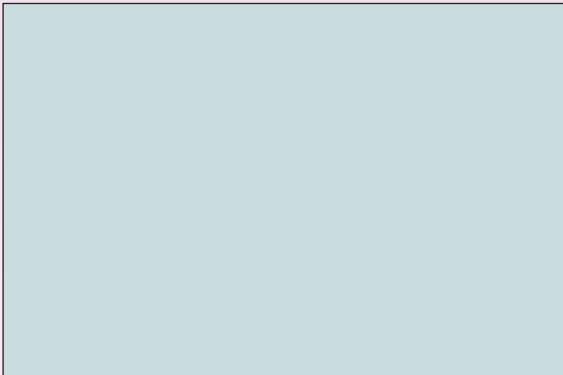


a. Total tiles:

Total distance (in tiles) around the floor:

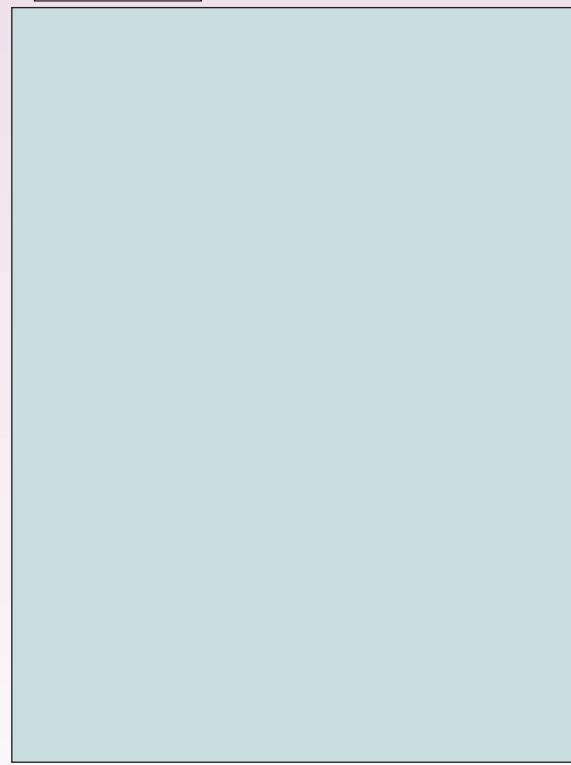
b. Total tiles:

Total distance (in tiles) around the floor:



c. Total tiles:

Total distance (in tiles) around the floor:



d. Total tiles:

Total distance (in tiles) around the floor:



A4 page ...

tile	How many whole tiles from Cut-out 5 will fit on a sheet of A4 size paper?
------	---



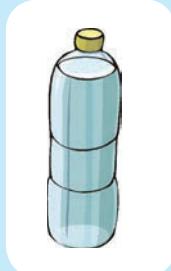
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

R13

# Capacity

This bottle holds 1 litre.

Identify the objects in the kitchen that can hold more or less than 1 litre.



## 1. Answer the following questions:

a. What can take more water than a cup?



b. Is this container full or empty?



c. Is this bottle full or empty?



d. Which container can take more water?



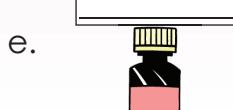
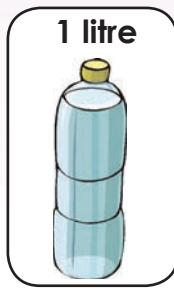
e. Is this container full or half full?



f. Is this bottle full?

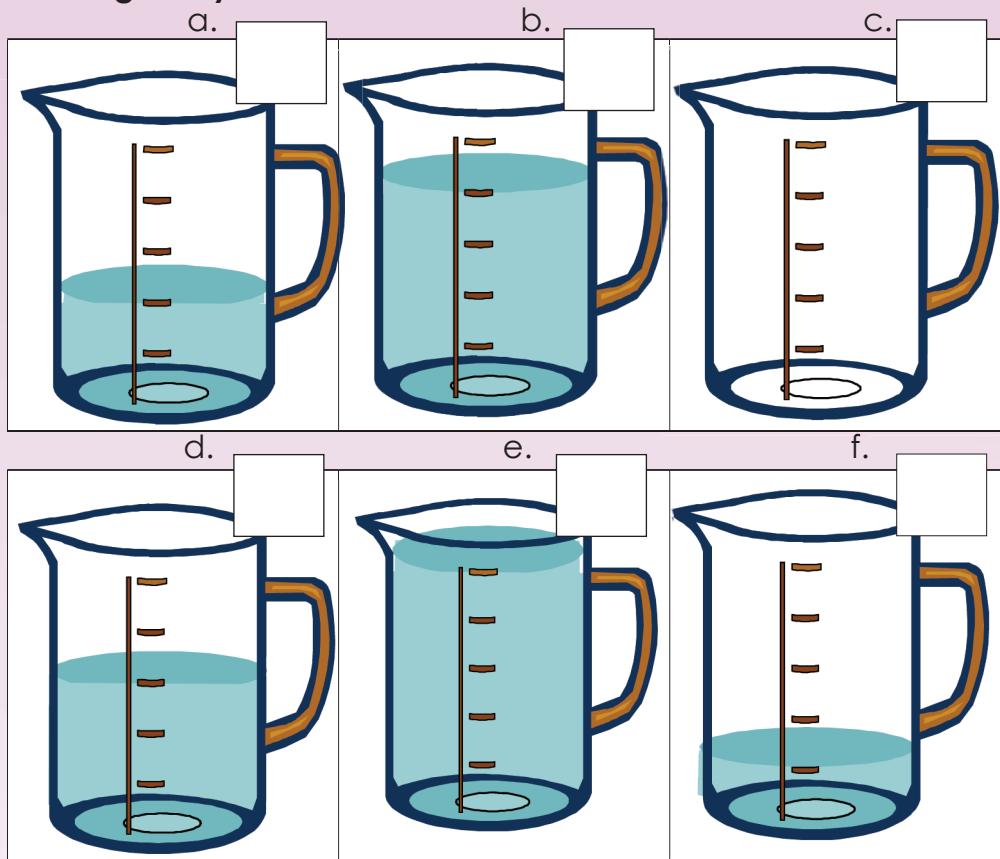


## 2. Use the bottle on the left, and estimate whether the container can take more or less than a litre.



3. How many bottles of water did you take to fill each measuring jug?

The picture on the left will guide you.



4. If each jug takes 3 litres of water, how many litres of water are there in each jug?



a.

b.

c.

### Capacity fun ...

Make a list of 10 things in your house that have a capacity of 1 litre.



Sign:

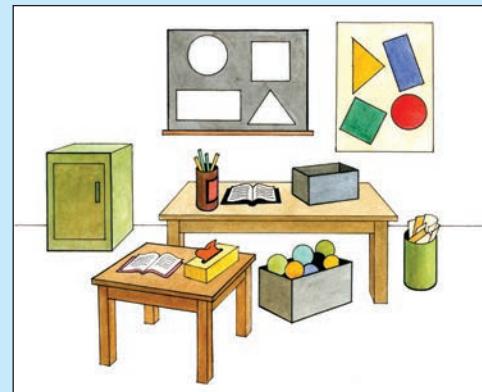
Date:

# 2-D Shapes and 3-D Objects

How many shapes and objects can you find?

**Words that can help:**

- |             |               |
|-------------|---------------|
| Rectangle   | Circle        |
| Square      | Triangle      |
| Box (Prism) | Ball (Sphere) |
| Cylinder    |               |



**1. Name the following shapes:**

a.



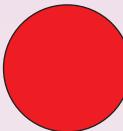

b.




c.

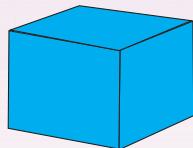



d.

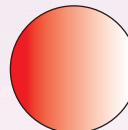



**2. Name the following objects:**

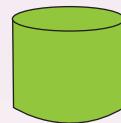
a.




b.




c.




**3. Colour the correct word or words.**

a.



Straight edges

Curved edges

b.



Straight edges

Curved edges

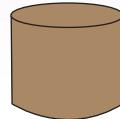
c.



Round surfaces

Flat surfaces

d.

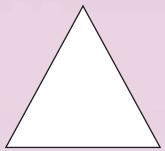


Round surfaces

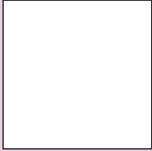
Flat surfaces

#### 4. Draw a line of symmetry.

a.



b.

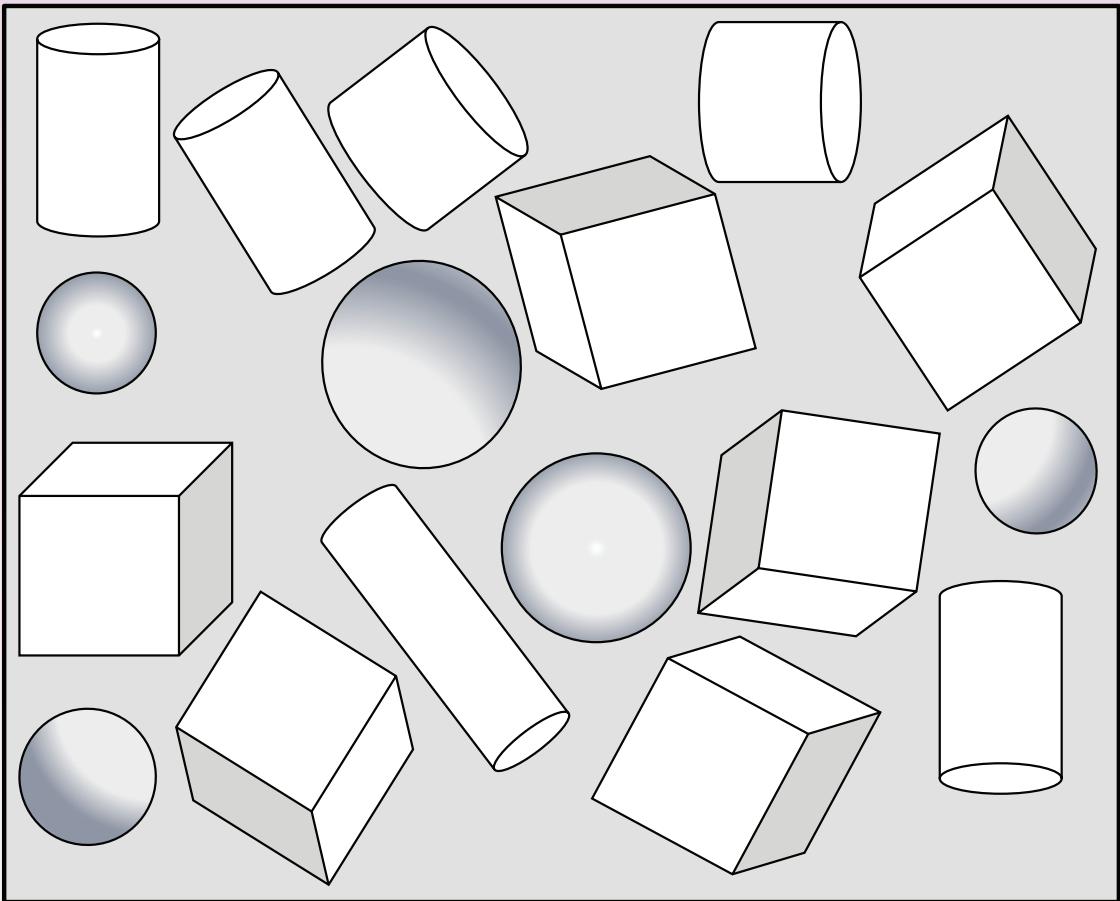


c.



#### 5. Colour all the cylinders blue. Then write on each object if it can:

- Roll only (R)
- Slide only (S)
- Roll and Slide (RS)



#### Find pictures ...

##### What to do:

- Go through a magazine, newspaper or an advertisement.
- Find pictures of five things that look like a:
  - cylinder
  - cube
  - ball (sphere)

Which object was  
the easiest to find?  
Which object was  
the most difficult to  
find?



Sign:

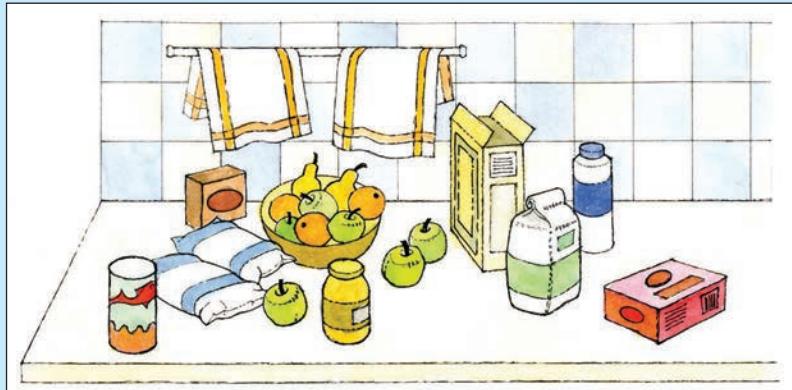
Date:

R15

# Weight (Mass)

Did you know that an average pineapple weighs 1 kg?

Identify the objects in the kitchen that are heavier or lighter than a pineapple.



## 1. Answer the questions.

a. What is lighter than a brick?



b. What is heavier, a full or an empty bag?



c. Is this bag heavier or lighter than a pineapple?



d. Are the biscuits heavier or lighter than the handbag?



e. Is this bag heavy or light?



f. Is this suitcase heavy or light?



## 2. Use the object on the left to estimate whether the object is heavier or lighter than a kilogram.

a. feather



b. shoes



c. cupcake



d. crayon



e. school bag



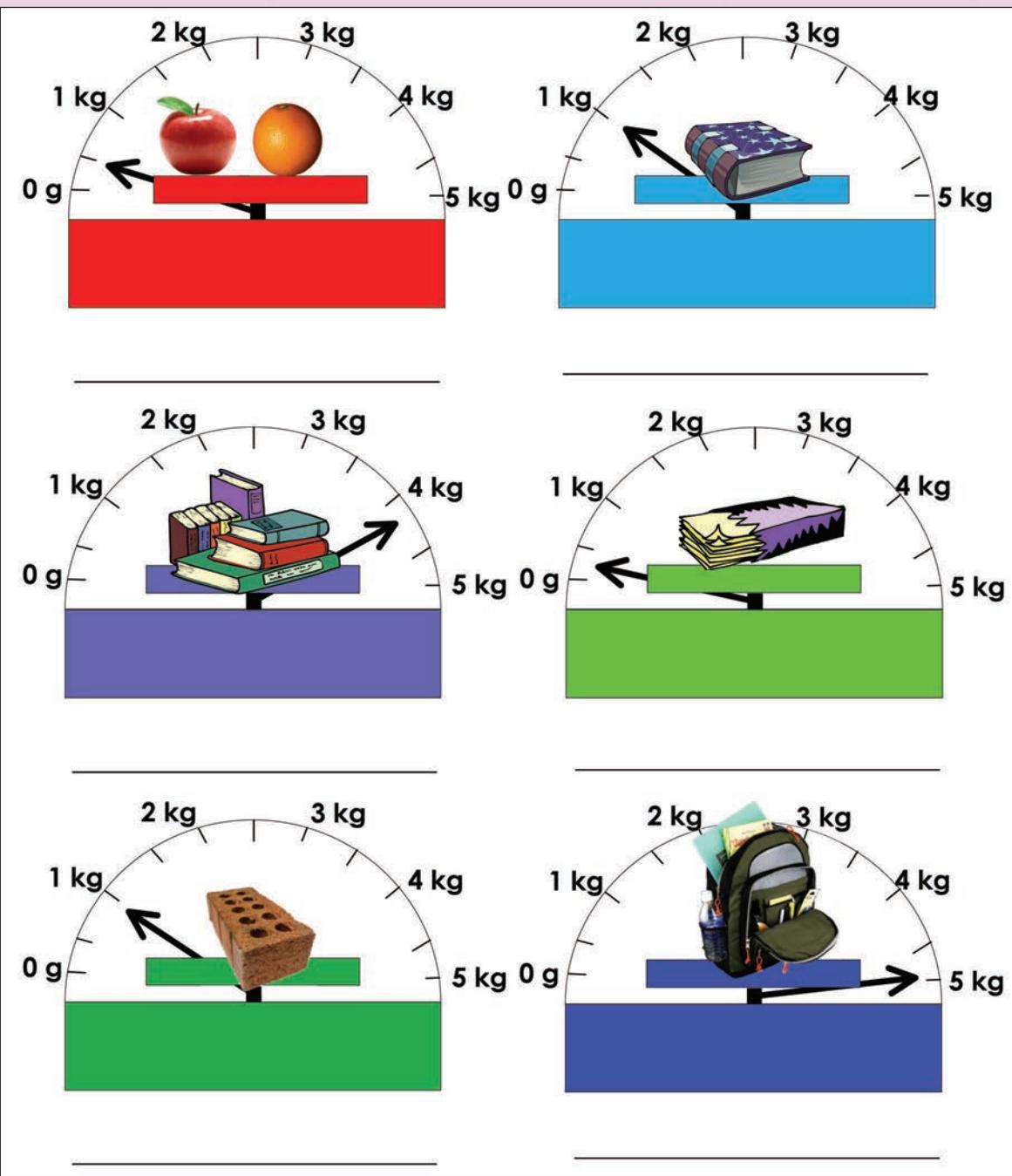
f. pencil case



g. packet of chips



### 3. Say if the object (or objects) weigh more, less or the same as 1 kilogram.



Mass fun ...

#### What to do:

- Make a list of 10 things in your house that weigh about 1 kilogram each.

Sign:

Date:

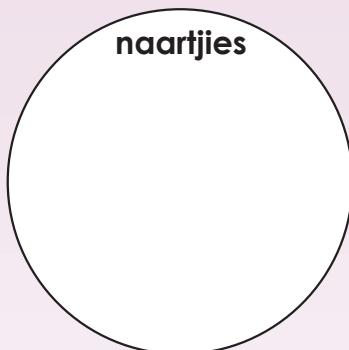
## Data



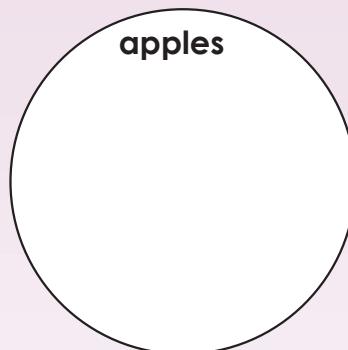
Term 1

1. Sort the fruit using the circles below. Make drawings:

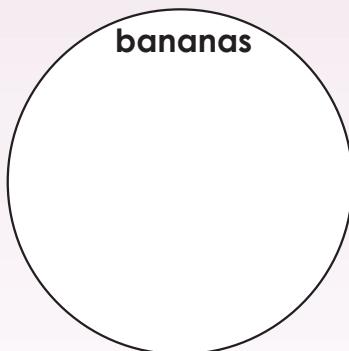
naartjies



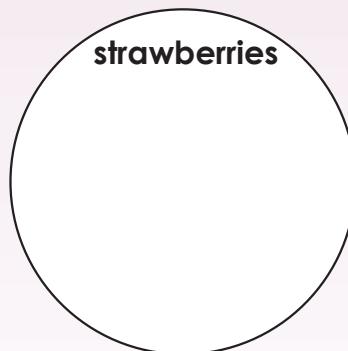
apples



bananas



strawberries



a. How many naartjies are there?

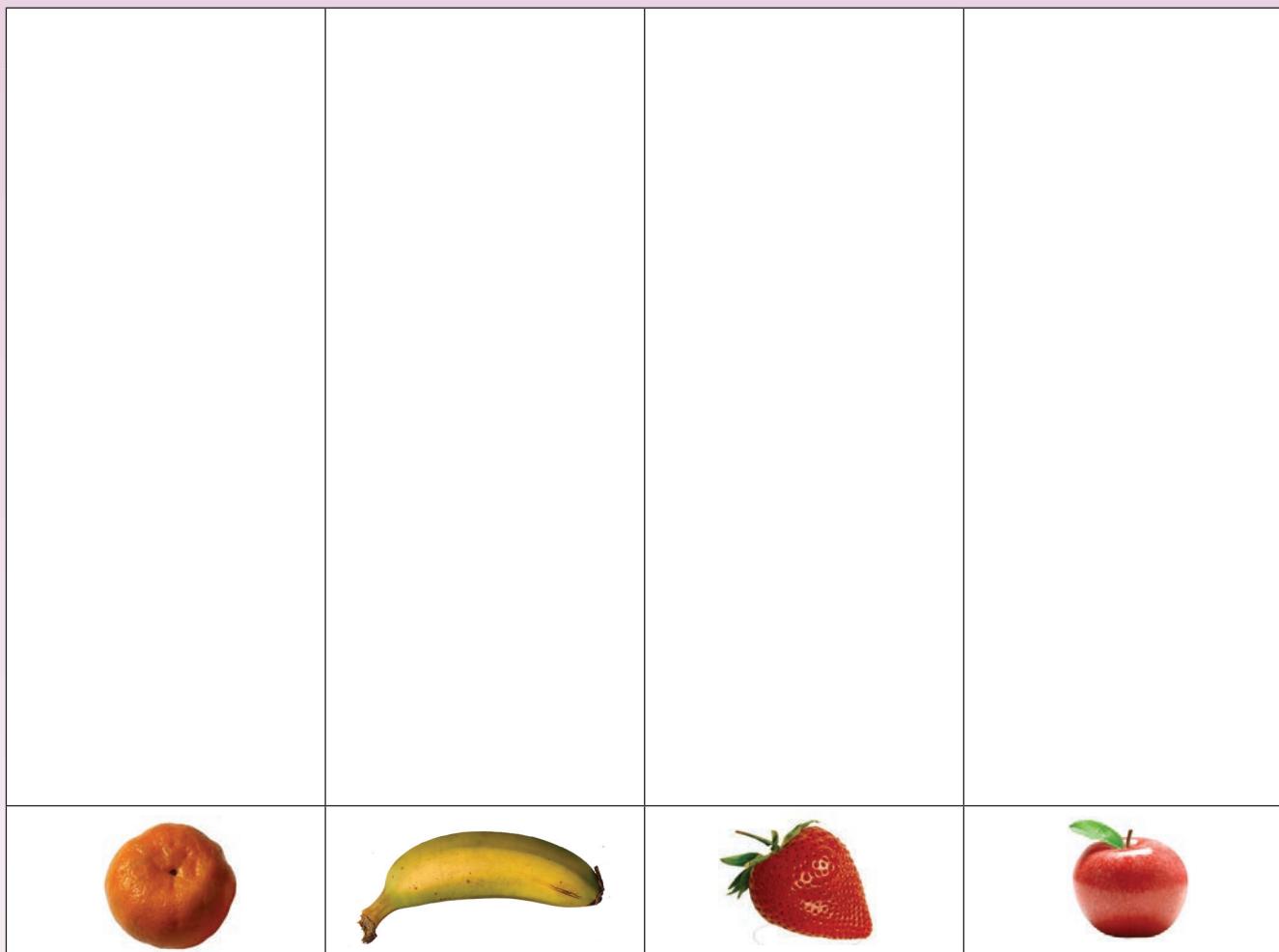
b. How many apples are there?

c. How many bananas are there?

d. How many strawberries are there?

2. Draw a pictograph.

Our favourite fruit



a. Do children like bananas or apples more?

b. Do children like strawberries or naartjies more?

c. What is the most popular fruit?

d. What is the least popular fruit?

Find a graph

Search through a newspaper for graphs. Bring one example of a graph to the classroom.



Date:



## Notes

Handwriting practice lines for notes.



Grade

4

# Mathematics

PART  
**2**  
**WORKSHEETS**  
**1 to 64**

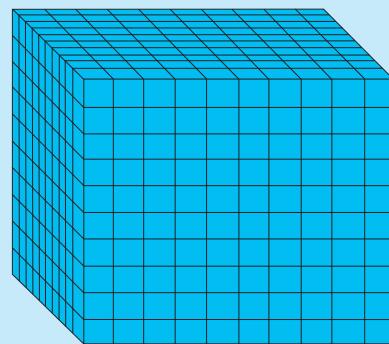
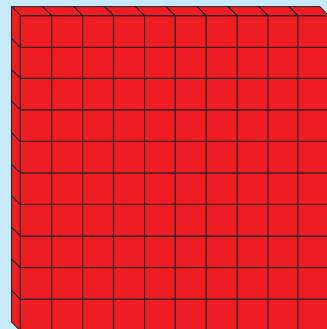
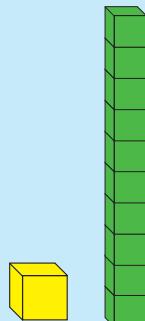
ENGLISH  
Book  
**1**

1a

# Numbers 0 to 1 000

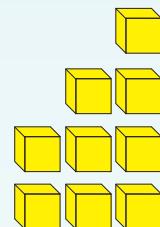
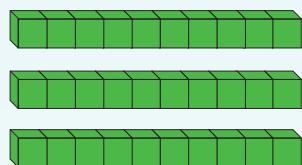
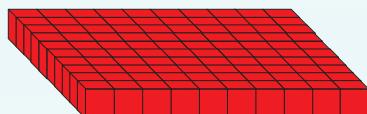


How many cubes are there in total?

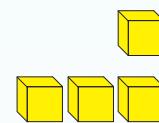
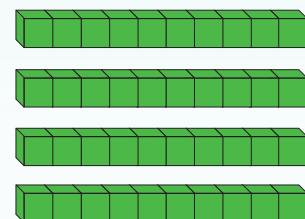
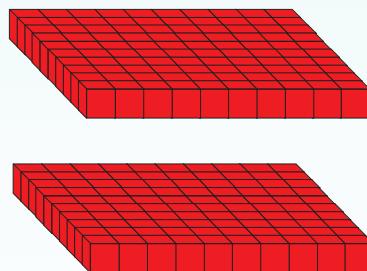


1. Count the cubes.

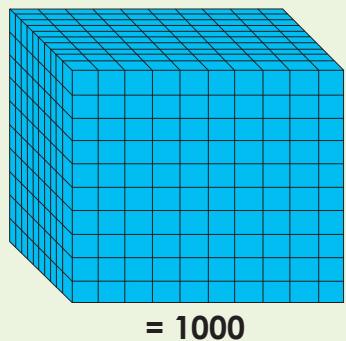
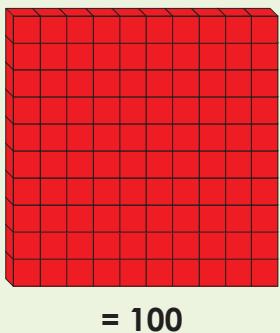
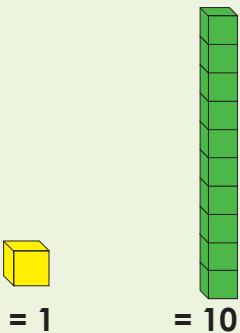
a.



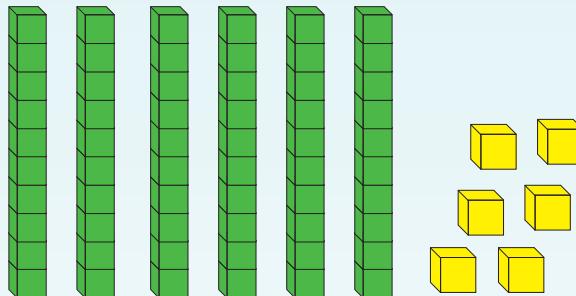
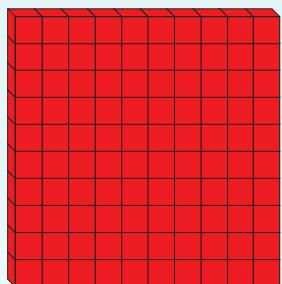
b.



## 2. How many cubes are there in total?



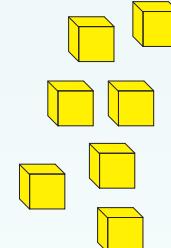
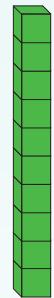
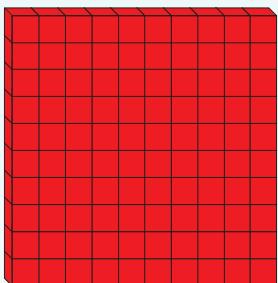
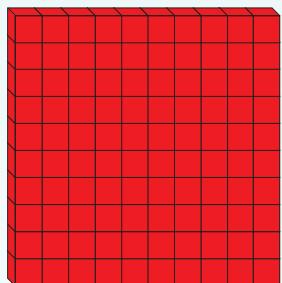
a.



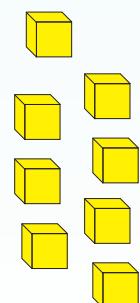
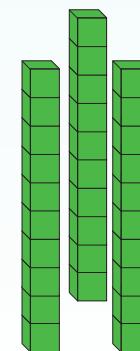
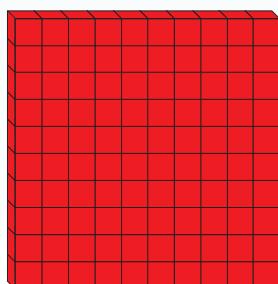
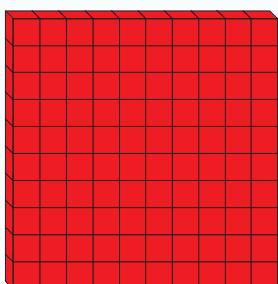
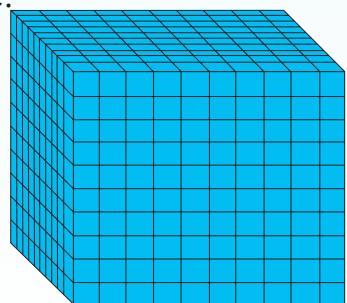
How many of  
the 100 blocks  
will make a  
1 000 block?



b.



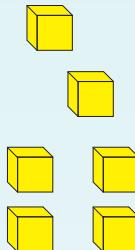
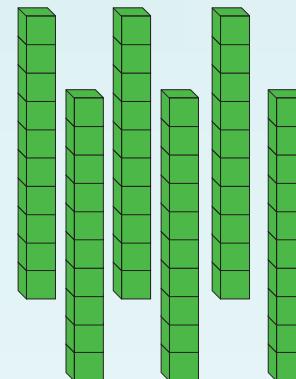
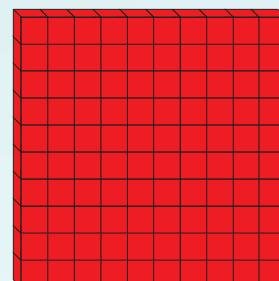
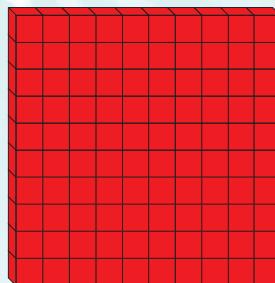
c.



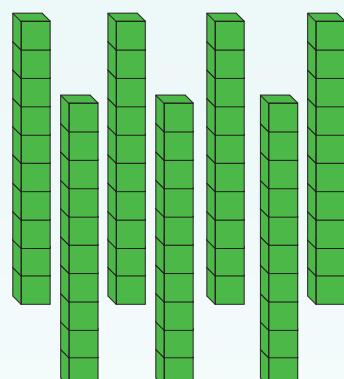
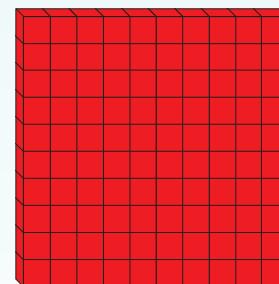
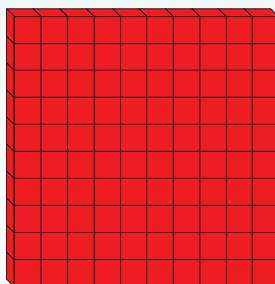
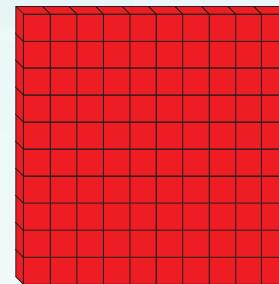
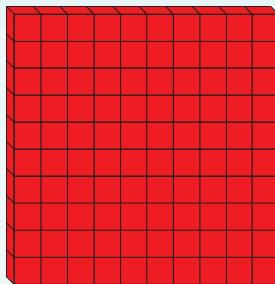
1b

# Numbers 0 to 1 000 continued

d.



e.



### 3. Match column A with column B

A

B

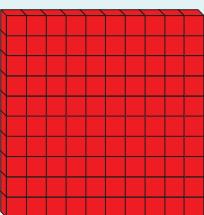


1 0 0



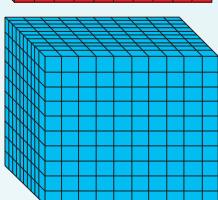
1

c.



1 0

d.



1 0 0 0

### 4. Calculate the following:

a. 0 + = = 11

b. 0 + 0 0 + = = 111

c. 0 0 + 0 0 + 0 0 + 0 + 0 + 0 + + =

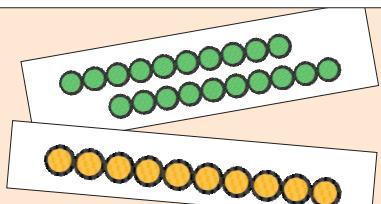
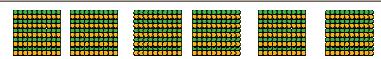
d. + + + 0 + 0 + 0 + 0 + 0 + 0 0 =

e. 0 + 0 + 0 + 0 0 + 0 0 + 0 0 + 0 0 + =

#### How quick are you?

##### What you need:

- Cut-out 1.



##### What to do:

- Play in pairs.
- Cut out the cards from the back of your books.
- Place them face down on your desk.
- You choose five cards and your partner chooses five.
- See who can give the total the quickest.
- Add 100 to your answer.
- Check your partner's answer.
- Do the same with 6/7/8/9/10 cards. Remember to add 100.
- The person with the most correct answers is the winner.



Sign:  
Date:

# More numbers 0 to 1 000



What number will these cards make?

7 0 0  
9 0

8

7 9 8



798



In words  
it is

Seven hundred and  
ninety-eight

Seven hundred and ninety-eight

## 1. Complete the following:

- a. + + =
- b. + + =
- c. + + =
- d. + =
- e. + =

## 2. Complete the following:

- a.  $100 + 60 + 4 =$
- b.  $200 + 10 + 8 =$
- c.  $900 + 90 + 9 =$
- d.  $600 + 20 =$
- e.  $700 + 7 =$

## 3. Write the number in the correct column:

		Hundreds	Tens	Units
a.	923	9	2	3
b.	113			
c.	204			
d.	580			
e.	600			

4. You need some coloured pencils do complete this question.

Complete the following using the first question to guide you.

a.  $247 = \text{2 hundreds} + \text{4 tens} + \text{7 units}$

b.  $892 =$  \_\_\_\_\_

c.  $384 =$  \_\_\_\_\_

d.  $566 =$  \_\_\_\_\_

e.  $201 =$  \_\_\_\_\_

5. Complete the table below:

		Expanded notation	Words
a.	493		
b.	900		
c.	187		
d.	349		
e.	420		

6. What is the value of the underlined digit?

a. 891

8 0 0

9 0

1

b. 320

c. 554

d. 632

e. 047

Find the number.

What to do:

- Bring a newspaper to class.
- Find five 3-digit numbers.
- Write them down.
- Share with the class what each number means.

What you need:

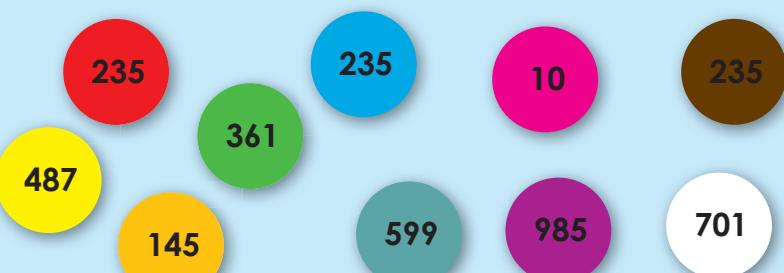
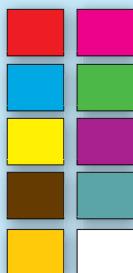
- A newspaper



Sign:  
Date:

# Even more numbers 0 to 1 000

Choose a colour on the left. Find the matching colour on the right. Choose 5 numbers smaller and 5 numbers bigger than the number (where possible).



## 1. Arrange the numbers from the smallest to the biggest.

- a. 896, 689, 888, 698, 986
- b. 426, 626, 642, 264, 269
- c. 735, 365, 373, 335, 533
- d. 400, 404, 304, 340, 430
- e. 999, 292, 922, 902, 920


## 2. Fill in < or >.

- a. 623  263
- b. 196  916
- c. 505  500
- d. 334  344
- e. 829  892



Greater than >



< Less than

## 3. What is the value of the digit 4 in these numbers?

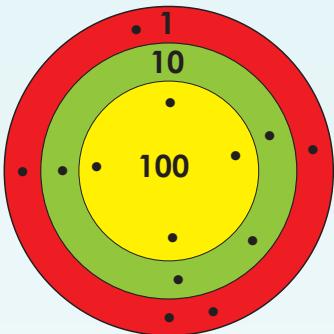
- a. 964
- b. 204
- c. 468
- d. 459
- e. 341

#### 4. Complete the following:

8    2    5

- Use each digit once. Make the smallest 3-digit number:
- Use each digit once. Make the largest 3-digit number:
- You can use a digit twice. Make the smallest 3-digit number:
- You can use a digit twice. Make the largest 3-digit number:

#### 5. Complete the following:



You tossed some stones on a game board. This were your result. If you add the numbers, what is the total?

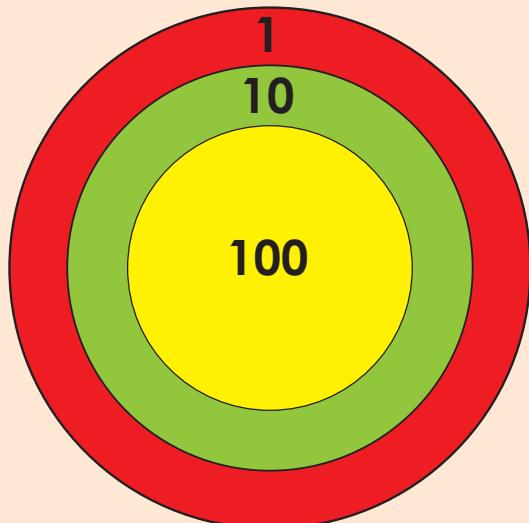
#### Who can get the largest number?

##### What you need:

- The game board on the right.
- Small stones.

##### What to do:

- Toss your stone on the board.
- Write down the number it lands on.
- Do this ten times.
- Add the numbers.
- The winner in a group is the person with the biggest number.



Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

# Rounding off to the nearest 10

Look at the symbols below and describe them.



When we want to write  $4 + 5$  is equal to 9, we use the symbol

=



When we want to write 8 rounded off to the nearest 10 we use the symbol

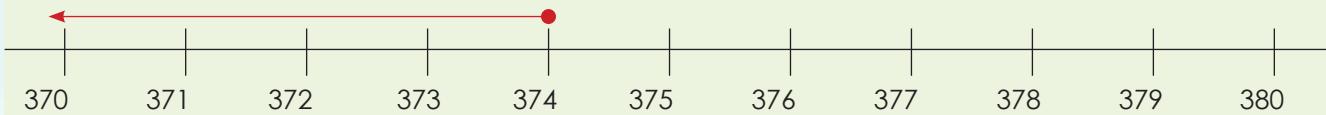
≈



## Rounding off to the nearest ten.

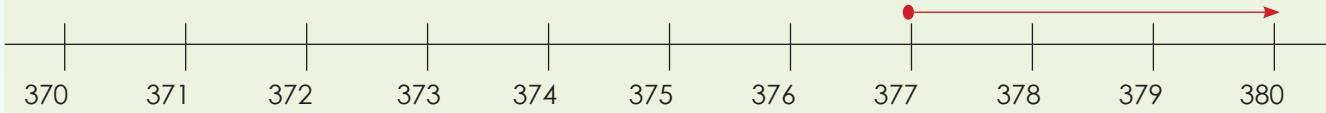
Round off the numbers that end in a digit from **1** to **4** to the previous (lower) ten.

Example: 374 rounded off to the nearest ten would be 370.



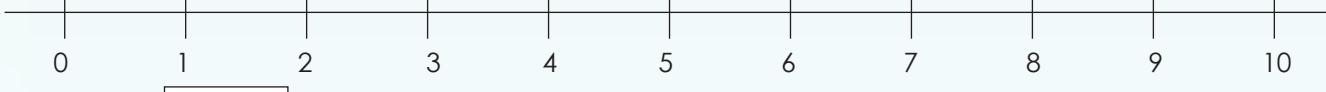
Round off numbers that end in a digit from **5** to **9** to the next (higher) ten.

Example: 377 rounded off to the nearest ten would be 380.

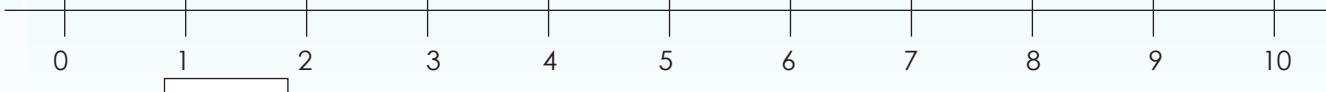


## 1. Round the following numbers off to the nearest ten using the number lines provided.

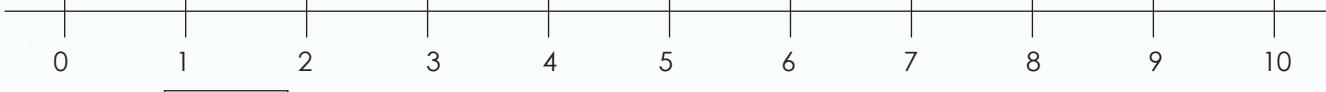
a.  $8 \approx$



b.  $3 \approx$



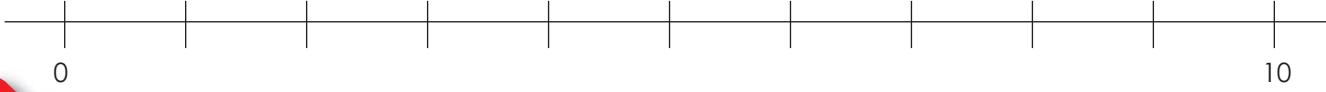
c.  $2 \approx$



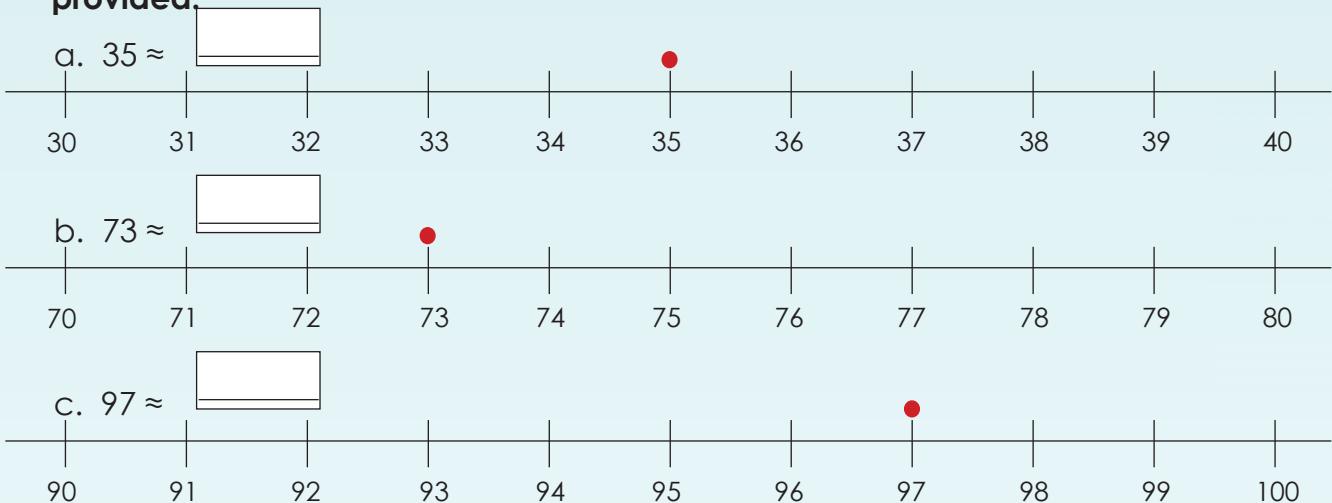
d.  $9 \approx$



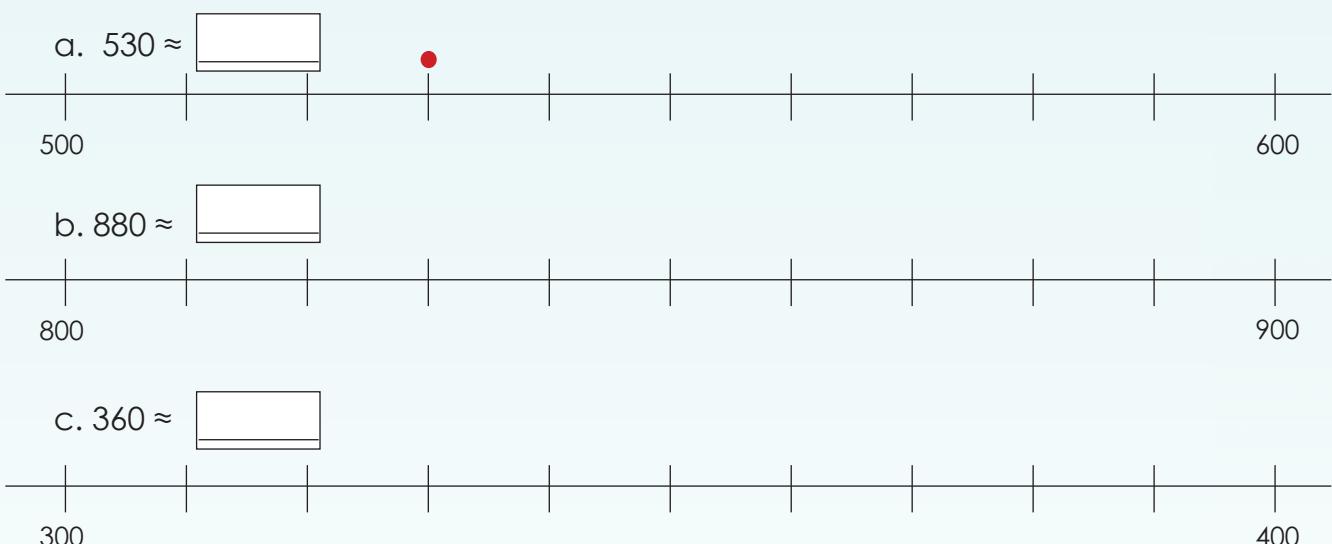
e.  $4 \approx$



2. Round the following numbers off to the nearest ten using the number lines provided.

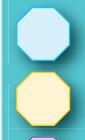
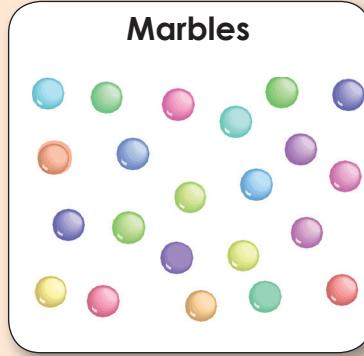
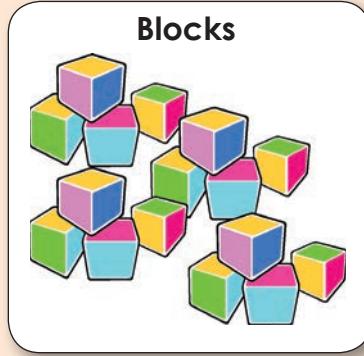


3. Round the following numbers off to the nearest hundred using the number lines.



### Round up and down

Round off each of these to the nearest 10.



Sign:  
Date:

Look at the symbols below and describe them.



When we want to write  $30 + 60$  is equal to 90, we use the symbol

$$=$$

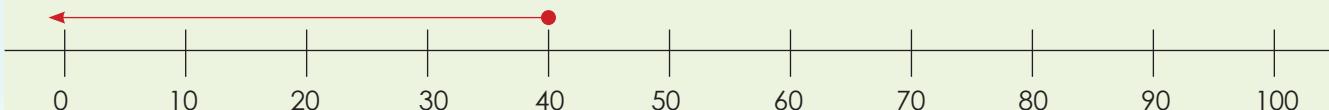


When we want to write 60 rounded off to the nearest 100 we use the symbol

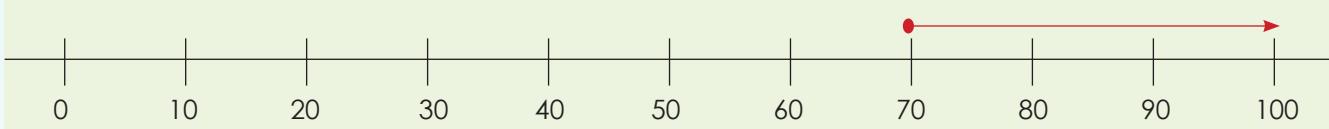
$$\approx$$

### Rounding off to the nearest hundred.

Round off the numbers that start with a digit from **1** to **4** to the previous (lower) hundred. Example: 40 rounded off to the nearest hundred would be 0.



Round off numbers that end in a digit from **5** to **9** to the next (higher) hundred. Example: 70 rounded off to the nearest hundred would be 100.

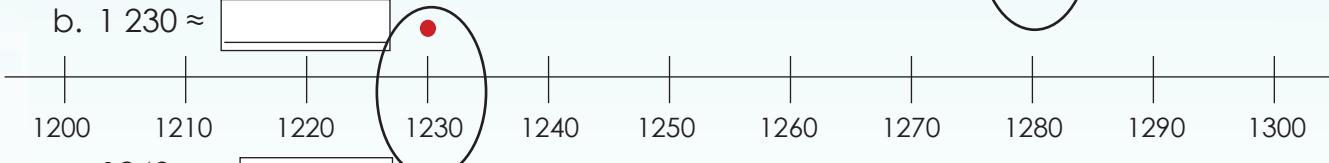


#### 1. Round the following numbers off to the nearest hundred using the number lines provided.

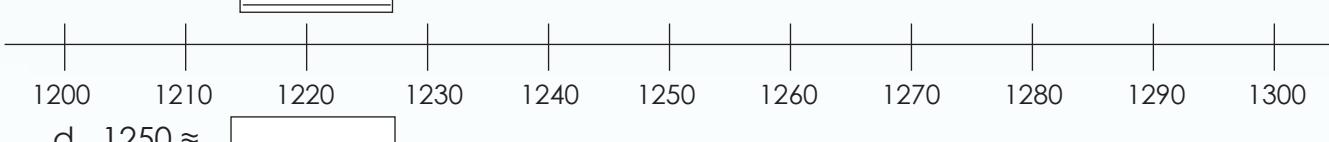
a.  $1280 \approx$



b.  $1230 \approx$



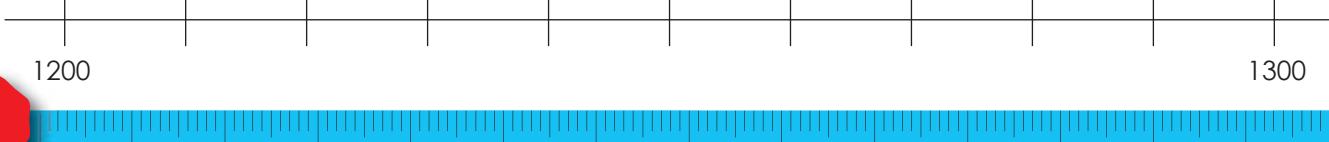
c.  $1240 \approx$



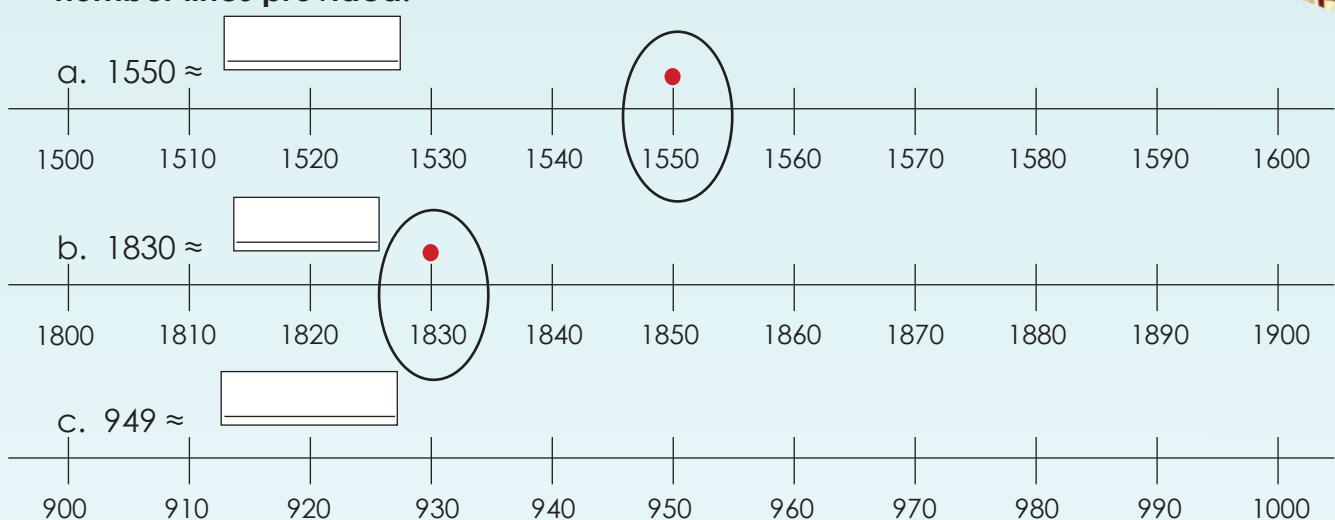
d.  $1250 \approx$



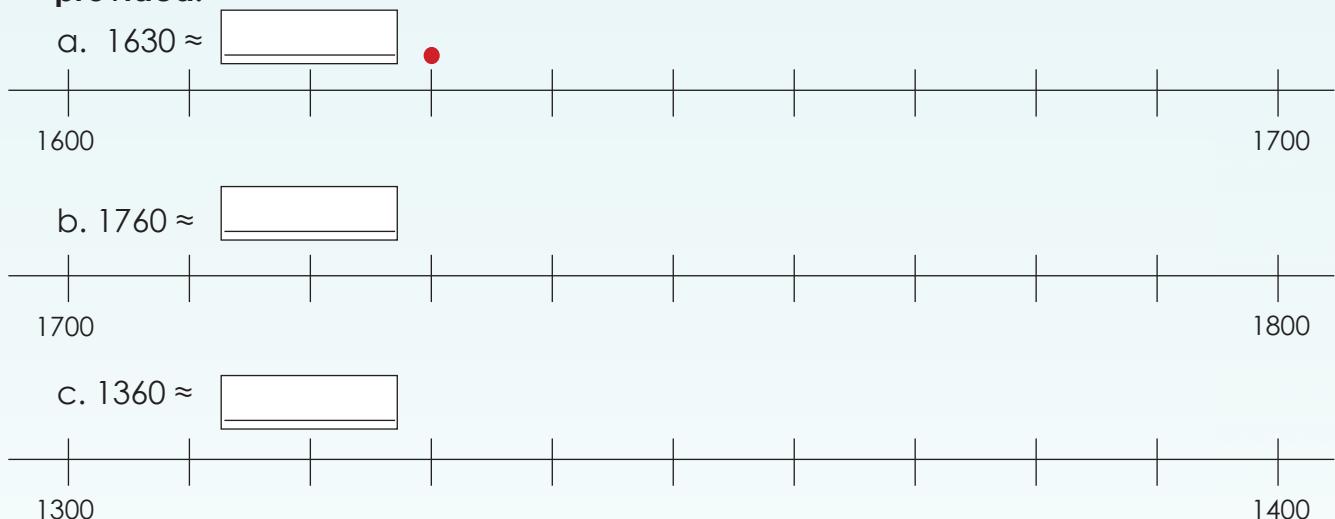
e.  $1256 \approx$



2. Round the following numbers off to the nearest hundred using the number lines provided.

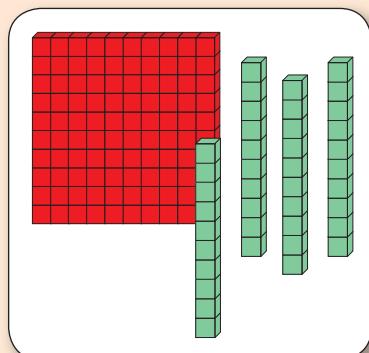
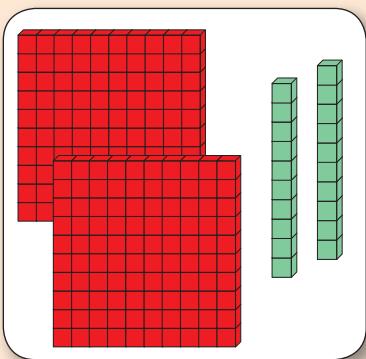
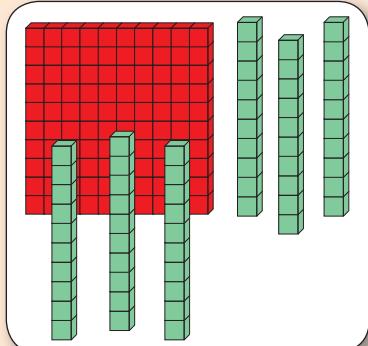


3. Round the following numbers off to the nearest hundred using the number lines provided.



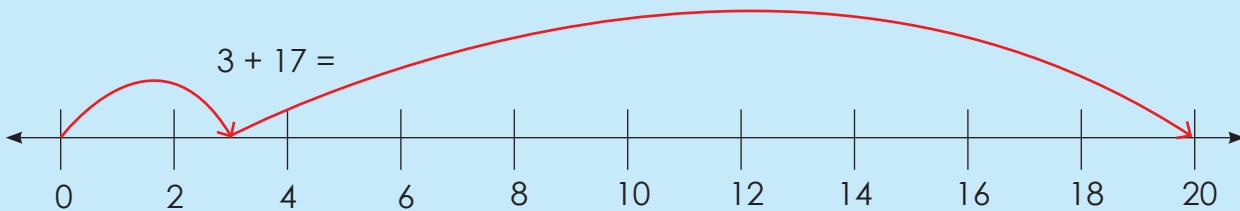
### Rounding off

– Round each off to the nearest 100.



# Number sentences

Here is one combination that will give you 20. How many more combinations can you come up with? Write them down on an extra sheet of paper.



## 1. Fill in the missing number.

a.  $3 + 7 = \boxed{\phantom{00}}$

b.  $8 + \boxed{\phantom{00}} = 10$

c.  $3 + \boxed{\phantom{00}} = 10$

d.  $10 - \boxed{\phantom{00}} = 4$

## 2. Fill in the missing number.

a.  $13 + 7 = \boxed{\phantom{00}}$

b.  $8 + \boxed{\phantom{00}} = 20$

c.  $3 + \boxed{\phantom{00}} = 20$

d.  $20 - \boxed{\phantom{00}} = 4$

## 3. Fill in the missing number.

a.  $230 + 70 = \boxed{\phantom{00}}$

b.  $240 + 60 = \boxed{\phantom{00}}$

c.  $240 + \boxed{\phantom{00}} = 300$

d.  $230 + \boxed{\phantom{00}} = 300$

## 4. Fill in the missing number.

a.  $130 + 170 = \boxed{\phantom{00}}$

b.  $140 + \boxed{\phantom{00}} = 300$

c.  $130 + \boxed{\phantom{00}} = 300$

d.  $300 - \boxed{\phantom{00}} = 160$

## 5. Calculate the following:

**Example:**

$$58 - 58 = \boxed{0}$$

$$264 - 264 = \boxed{0}$$

$$304 - \boxed{0} = 304$$

When you subtract a number from itself you get zero.

a.  $46 - 46 = \boxed{\phantom{0}}$

b.  $\boxed{\phantom{0}} - \boxed{\phantom{0}} = 0$

c.  $165 - \boxed{\phantom{0}} = 165$

d.  $37 - 4 + 4 = \boxed{\phantom{0}}$

e.  $27 + 6 - 6 = \boxed{\phantom{0}}$

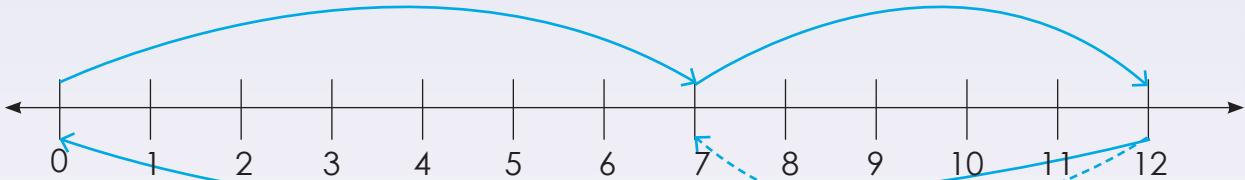
## 6. Calculate and show on a number line.

**Example:**

$$7 + 5 = \boxed{12}$$

$$\text{therefore } 12 - 5 = \boxed{7}$$

You can use addition to check subtraction.



a.  $8 + 3 = \boxed{\phantom{0}}$  therefore  $11 - 3 = \boxed{\phantom{0}}$

## 7. Calculate the following:

a.  $47 + 22 = \boxed{\phantom{0}}$  therefore  $\boxed{\phantom{0}} - 22 = \boxed{\phantom{0}}$

b.  $56 + 31 = \boxed{\phantom{0}}$  therefore  $\boxed{\phantom{0}} - \boxed{\phantom{0}} = \boxed{\phantom{0}}$



Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

continued ➔

# Number sentences continued

## 8. Complete the equations.

- a.  $13 + 46 = \boxed{\quad}$  or  $46 + 13 = \boxed{\quad}$  b.  $36 + 297 = \boxed{\quad}$  or  $297 + 36 = \boxed{\quad}$
- c.  $27 + 94 = \boxed{\quad}$  or  $94 + 27 = \boxed{\quad}$  d.  $12 + 15 = 15 + \boxed{\quad}$
- e.  $\boxed{\quad} + 6 = \boxed{\quad} + 7$  f.  $125 + 164 = 164 + \boxed{\quad}$
- g.  $89 + 46 = 46 + \boxed{\quad}$  h.  $\boxed{\quad} + 49 = \boxed{\quad} + 36$
- i.  $174 + 132 = \boxed{\quad} + \boxed{\quad}$  j.  $56 - 14 = \boxed{\quad} + 42$

## 9. Calculate the following:

- a.  $(3 + 2) + 1 = \boxed{\quad}$  is the same as  $3 + (2 + 1) = \boxed{\quad}$
- b.  $(31 + 26) + 19 = \boxed{\quad}$  is the same as  $31 + (26 + 19) = \boxed{\quad}$
- c.  $51 + (13 + 49) = \boxed{\quad}$  is the same as  $(51 + 13) + 49 = \boxed{\quad}$
- d.  $(4 + 3) + 2 = \boxed{\quad} + (3 + 2)$
- e.  $(9 + 6) + 5 = 9 + (\boxed{\quad} + 5)$
- f.  $4 + (2 + 7) = (\boxed{\quad} + \boxed{\quad}) + 7$
- g.  $(8 + 1) + 4 = \boxed{\quad} + (1 + 4)$
- h.  $7 + (4 + 2) = (\boxed{\quad} + \boxed{\quad}) + 2$
- i.  $(11 + 3) + 2 = 11 + (\boxed{\quad} + 2)$

## 10. Say if the following are true or false.

a.  $9 + 8 = 8 + 9$

True

b.  $3 + 6 = 6 - 3$

c.  $7 - 4 = 4 - 7$

d.  $10 - 5 = 5 + 10$

e.  $8 + 3 = 3 - 8$

f.  $15 - 10 = 10 - 15$

g.  $4 + 6 = 6 + 4$

h.  $4 - 6 = 6 + 4$

i.  $4 - 6 = 6 - 4$

j.  $4 + 6 = 6 - 4$

k.  $2 + (4 + 6) = (2 + 4) + 6$

### Number problems

- a. You have 40 marbles in a bag. Write down all the number sentences that will give you an answer of 40. You should only add two numbers every time.
- b. What will happen if I take any two numbers that are the same, and subtract the one from the other?



Sign:

Date:

What is the difference between the numbers?

1	2	3	4	5	6	7	8	9	10
11	21	31	41	51	61	71	81	91	101
110	120	130	140	150	160	170	180	190	200
100	200	300	400	500	600	700	800	900	1 000
90	190	290	390	490	590	690	790	890	990

1. What number comes next?

- a. 8, 9, 10,
- b. 20, 30, 40,
- c. 55, 65, 75,
- d. 95, 195, 295,
- e. 645, 745, 845,
- f. 912, 922, 932

2. Complete the table: Add to the given number.

Number	Add 100	Add 10	Add 1
233			
98			
478			
399			
862			

**3. Fill in the missing number:**

a.  $3 + \boxed{\phantom{00}} = 10$

b.  $17 + \boxed{\phantom{00}} = 20$

c.  $90 + \boxed{\phantom{00}} = 100$

d.  $85 + \boxed{\phantom{00}} = 100$

e.  $78 + \boxed{\phantom{00}} = 100$

f.  $325 + \boxed{\phantom{00}} = 350$

g.  $312 + \boxed{\phantom{00}} = 400$

h.  $350 + \boxed{\phantom{00}} = 525$

i.  $238 + \boxed{\phantom{00}} = 400$

j.  $564 + \boxed{\phantom{00}} = 800$

**4. Complete the table.**

	Number	Complete up to the next 10.	Complete up to the next 100.
a.	35	$35 + \boxed{5} = 40$	$35 + \boxed{65} = 100$
b.	265	$265 + \boxed{5} = 270$	$265 + \boxed{35} = 300$
c.	342	$342 + \boxed{8} = 350$	$342 + \boxed{58} = 400$
d.	486	$486 + \boxed{14} = 490$	$486 + \boxed{114} = 500$
e.	964	$964 + \boxed{36} = \boxed{990}$	$964 + \boxed{36} = \boxed{990}$

continued ➞



# Addition up to 4 digits continued

**Examples:**
**Example 1:**

$$134 + 123$$

$$\boxed{100} \ \boxed{30} \ \boxed{4} \ + \ \boxed{100} \ \boxed{20} \ \boxed{3}$$

$$= 100 + 100 + 30 + 20 + 4 + 3$$

$$= 200 + 50 + 7$$

$$= 257$$

**Example 2:**

$$468 + 274$$

$$\boxed{400} \ \boxed{60} \ \boxed{8} \ + \ \boxed{200} \ \boxed{70} \ \boxed{4}$$

$$= 400 + 200 + 60 + 70 + 8 + 4$$

$$= 600 + 130 + 12$$

$$= 600 + 100 + 30 + 10 + 2$$

$$= 700 + 40 + 2$$

$$= 742$$

**5. Use both methods above to calculate the following.**

a.  $644 + 120$

$$\boxed{\phantom{0}} \ \boxed{\phantom{0}} \ \boxed{\phantom{0}} \ + \ \boxed{\phantom{0}} \ \boxed{\phantom{0}} \ \boxed{\phantom{0}}$$

$$= 600 + 100 + 40 + 20 + 4$$

$$= \boxed{\phantom{000000}}$$

$$= \boxed{\phantom{000000}}$$

b.  $143 + 152$

$$\boxed{\phantom{0}} \ \boxed{\phantom{0}} \ \boxed{\phantom{0}} \ + \ \boxed{\phantom{0}} \ \boxed{\phantom{0}} \ \boxed{\phantom{0}}$$

$$= \boxed{\phantom{000000}}$$

$$= \boxed{\phantom{000000}}$$

$$= \boxed{\phantom{000000}}$$

c.  $394 + 468$

			+			
--	--	--	---	--	--	--

$$\begin{array}{r} = \\ = \\ = \\ = \\ = \end{array}$$

d.  $1268 + 324$

				+			
--	--	--	--	---	--	--	--

$$\begin{array}{r} = \\ = \\ = \\ = \\ = \end{array}$$

e.  $2374 + 1287$

				+				
--	--	--	--	---	--	--	--	--

$$\begin{array}{r} = \\ = \\ = \\ = \\ = \end{array}$$

### What is the size of your number?



#### What you need:

- Use the 10s, and 100s dice you made before.
- Piece of paper.



#### What to do:

- Individual game against a group or the class.
- Roll the 10s dice.
- Add the number landed on, to the first number on the blue card. Write your addition sum on a piece of paper.
- Do the same with the 2nd to the 5th number.

115  
127  
138  
149  
192



Sign:  
Date:

How fast can you answer this?

- Add  $800 + 30 + 5$ .
- What is the **sum of** 300 and 400?
- How many do 100 and 500 make **altogether**?
- What three numbers have **a total of** 200?
- Add 25 **and** 18.
- What is **the sum of** 100 and 52?
- How many **altogether** are 42 and 59?
- Which three numbers have **a total of** 80?

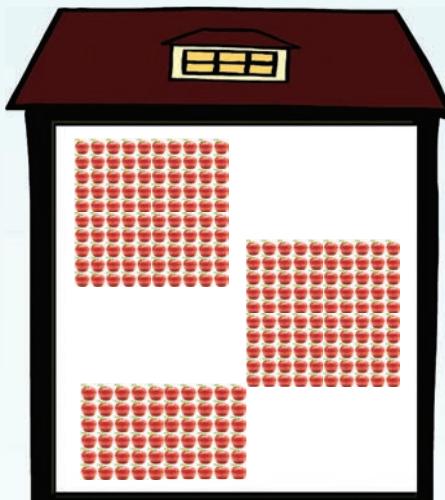
How did the blue words help you?

What word will help you to choose the operation?

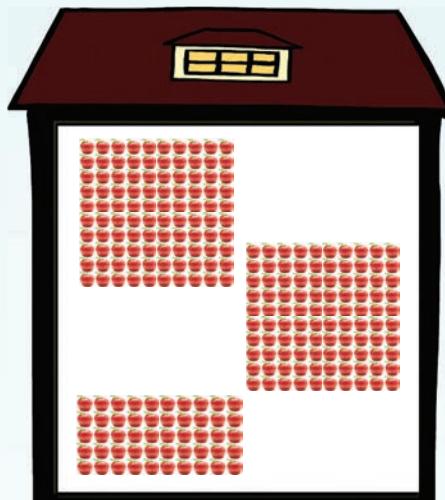


1. Solve the following problems. The pictures may guide you. Also use the blue word.

- a. A juice company has 260 apples. They get another 250 apples. How many apples do they have now?



and



$$200 + 200 + \boxed{\quad} + 50$$

$$= \boxed{\quad}$$

$$= \boxed{\quad}$$

$$= \boxed{\quad}$$

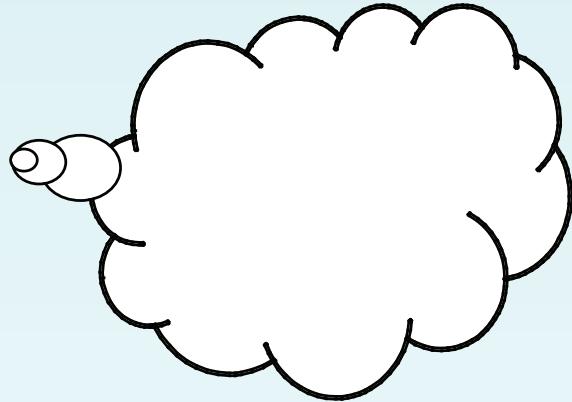
$$= \boxed{\quad}$$

Try to form a picture in your mind. These are the number of apples.



b. Mandla had 975 oranges. He bought another 155 oranges.  
How many oranges does he have?

i. What picture do you see when you think about this problem? Draw it.



ii. What operation should you use?

iii. Solve the problem. Write it down in your writing book.

Continue on an extra sheet of paper.

c. Our class collected 421 empty plastic bottles to recycle. The other class collected 375 bottles. How many empty plastic bottles did the two classes collect altogether?

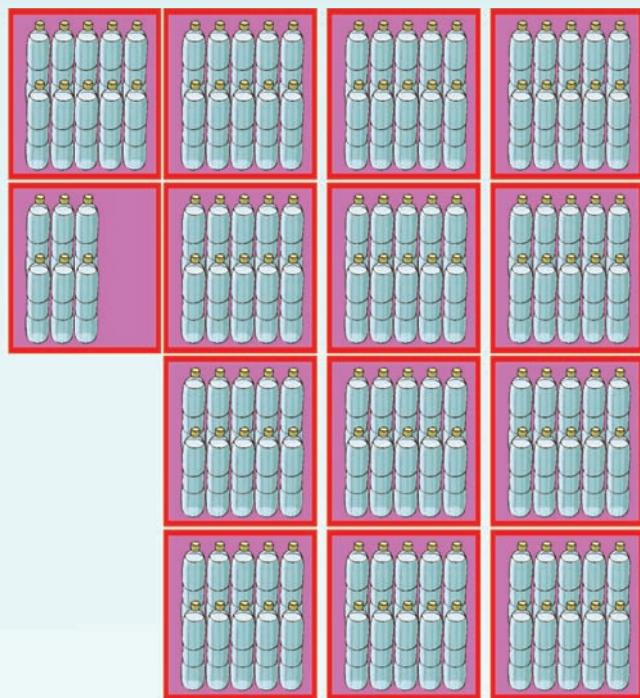
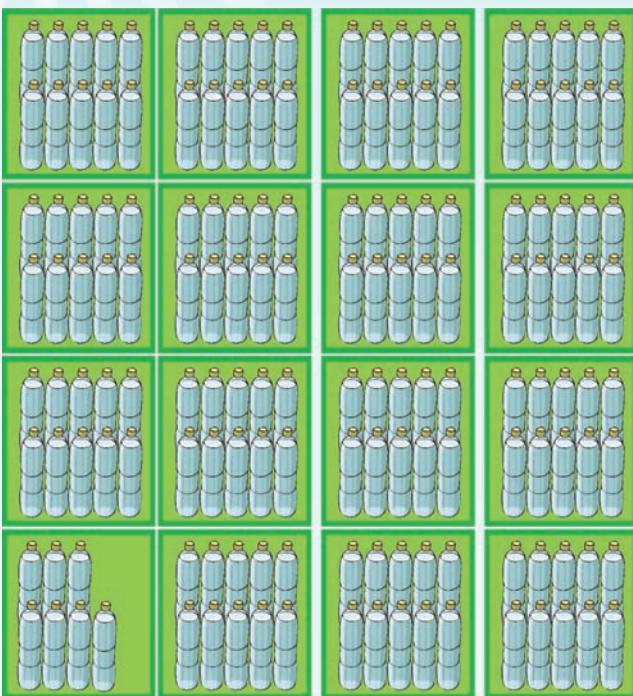
Continue on an extra sheet of paper.

**continued** 



Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

2. Look at the pictures below and write an interesting addition word sum.



Term 1

Continue on an extra sheet of paper.

3. Write an appropriate and interesting word sum for: 439 and 514. Solve it.

Continue on an extra sheet of paper.

#### Counting houses ...

There were **700** + **10** + **4** houses in Extension 4. Then

**400** + **80** + **9** extra houses were built in Extension 4.

How many houses are there now in Extension 4?



Sign:

Date:

# Subtraction



What is the difference between the numbers?

1	2	3	4	5	6	7	8	9	10
18	28	38	48	58	68	78	88	98	108
20	30	40	50	60	70	80	90	100	110
100	200	300	400	500	600	700	800	900	1 000
990	1 990	2 990	3 990	4 990	5 990	6 990	7 990	8 990	9 990

1. What number comes next?

a. 5, 6, 7,

b. 10, 20, 30,

c. 135, 235, 335,

d. 284, 294, 304,

e. 416, 516, 616,

f. 574, 674, 774,

2. Complete the table: Subtract from the given number.

Number	Subtract 1	Subtract 10	Subtract 100
165			
124			
367			
519			
893			

**3. Fill in the missing number:**

a.  $4 - \boxed{\phantom{00}} = 0$

b.  $13 - \boxed{\phantom{00}} = 10$

c.  $75 - \boxed{\phantom{00}} = 70$

d.  $72 - \boxed{\phantom{00}} = 70$

e.  $113 - \boxed{\phantom{00}} = 100$

f.  $140 - \boxed{\phantom{00}} = 100$

g.  $341 - \boxed{\phantom{00}} = 300$

h.  $945 - \boxed{\phantom{00}} = 800$

i.  $864 - \boxed{\phantom{00}} = 800$

j.  $985 - \boxed{\phantom{00}} = 850$



Sign:

Date:

**continued** ➞

## **Subtraction** continued



This is a  
problem!

### Example:

$$\begin{array}{r}
 913 - 458 \\
 900 \quad \boxed{10} \quad \boxed{3} \quad - \quad \boxed{400} \\
 = (900 - 400) + (10 - 50) + (3 - 8) \\
 = (500) + (\boxed{0} - 50) + (13 - 8) \\
 = (400) + (100 - 50) + (13 - 8) \\
 = 400 + 50 + 5
 \end{array}$$

4. Complete the following using the method above:

A.  $798 - 164$

$= (700 - 100) + (90 - 60) + (8 - 4)$

$=$



b. 929 - 174

c.  $946 - 597$

d.  $2683 - 1241$

- 1 281 2 870

The diagram consists of two main parts. On the left, there is a vertical stack of five rectangles. From top to bottom, the colors of the rectangles are yellow, green, red, white, and blue. Each rectangle has a thin black border. To the right of this stack is a horizontal row of five identical vertical bars. Each bar is light gray with a thin black outline. Below each bar is a small black label containing the letter 'II'. The entire diagram is set against a white background.

**4** Complete the following using the method above:

A.  $798 - 164$

$= (700 - 100) + (90 - 60) + (8 - 4)$

$=$

b. 929 - 174

C. 946 - 597

=

946

  - 597

    |

    |

    |

    |

    ||

    ||

    ||

    ||

What is the size of your number?

104

104

**What you need:**

- Use the 10s and 100s digits previously made.

**What to do:**

- Individual game against a group or the class.
- Roll the 10s dice.
- Subtract the number landed on, to the first number on the blue card. Write your subtraction sum on a piece of paper.

984

sign  
date

Signs

Term 1

## Subtraction problems

10a

How fast can you answer these?

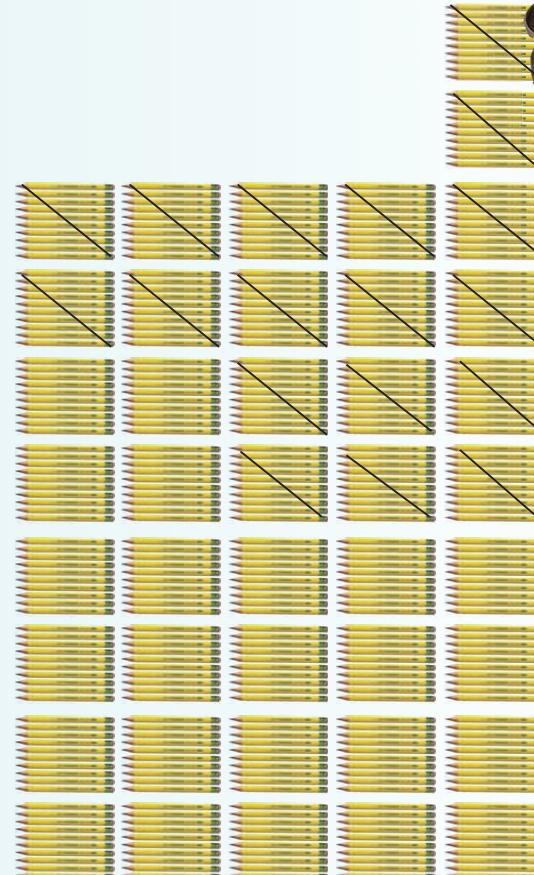
- Subtract 7 000 from 8 000.
- What is the **difference** between 650 and 370?
- Minus 700 and 85.
- Decrease 100 000 by 10 000.
- Subtract 9 000 and 820.
- Reduce 755 by 102.
- Take 150 from 1 003.
- Take away 37 from 2 000.



How did the **blue** words help you?

1. Solve the following problems. The pictures may guide you. Also use the **blue word**.

- a. Our school bought 420 pencils. We used 180 pencils. How many pencils are left?



$$420 - 180$$

$$=$$

$$=$$

$$=$$

$$=$$

**left**

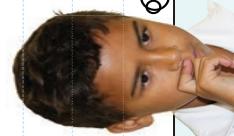
**-**



What word will help me to choose the operation?

- b. Mpo is selling pencils. She had 800 pencils. She sold 257 pencils.  
How many pencils does she have left?

- i. What picture do you see when you think about this problem? Draw it.



Continue on an extra sheet of paper.

- ii. What operation should you use?

Continue on an extra sheet of paper.

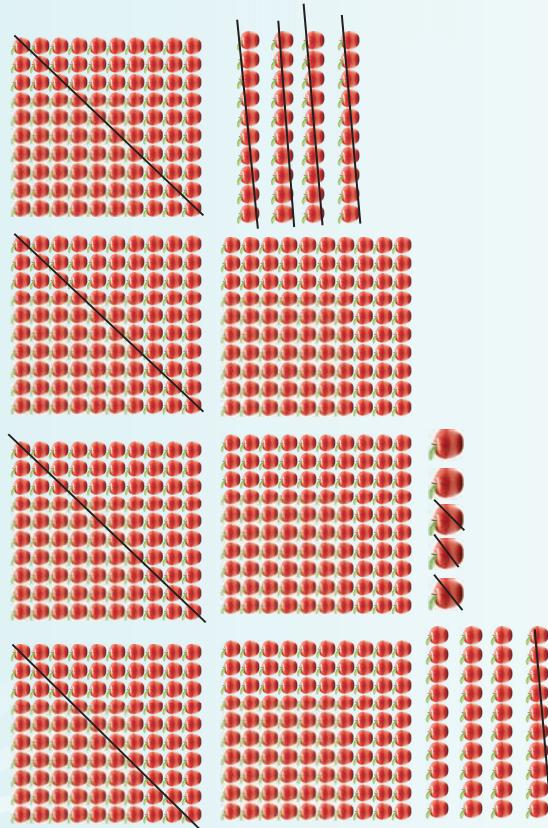
- iii. Solve the problem. Write it down in your workbook.

Continue on an extra sheet of paper.

## Subtraction problems continued

**10b**

2. There were 785 apples at the fruit shop. They sold 453. How many apples were left?



3. Write an appropriate and interesting subtraction word sum for:  
723 and 189. Solve it.


Continue on an extra sheet of paper.

**Your own story**

Look at the picture and make your own subtraction story.


Continue on an extra sheet of paper.



# 8

## Addition and subtraction problems

**Continued**

### 5. Solve the following problems:

- a. Thabo and his sisters were counting animals and birds at the zoo. Thabo counted 234 animals, his sister, Susan counted 1 004 birds, and their younger sister, Lindy, counted 538 animals.

i. How many animals and birds did they count all together?

- ii. The guide told them that they could expect to see 2 000 animals and birds. How many animals did they not see?



- b. The book store bought 1 200 new books and there were already 1 250 on the shelves. They were all put on sale and 1 625 books were sold.

- i. How many books were on the shelves before the sale?



ii. How many books were left after the sale?

Continue on an extra sheet of paper.

iii. If the bookshop sells another 500 books, how many books are left?

Continue on an extra sheet of paper.

### Coloured numbers



#### What to do:

Play in pairs.

- The first player will say: 'Add green numbers'

- The second player can take any two green numbers and add them. If the player is correct, he or she will get one point.

- The second player will say: 'Subtract yellow numbers'. The first player makes a subtraction sum with any two yellow numbers.

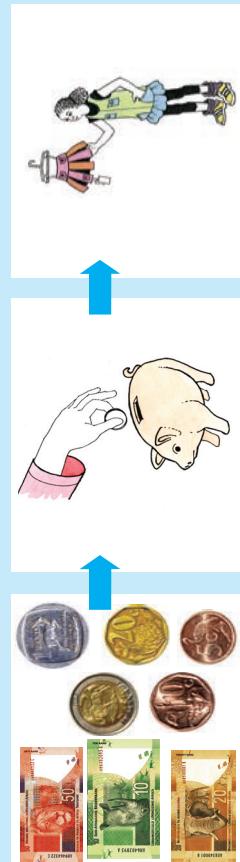
- Carry on playing. The first person with a score of 10 is the winner.

Coloured numbers			
200	500	75	175
10	450	800	20
395	250	120	350
15	150	700	400

# Let's talk about money

12

Talk about money. Look at the picture and make your own story.



1. Colour the combination that will give you:

- a. **R5**  R1  R2  R3  R1
- b. **R2**  R1  50c  R1  50c
- c. **R1**  20c  50c  20c  10c  10c  5c
- d. **R1,50**  R1  50c  50c  50c
- e. **R1,75**  R1  10  20c  50c  10c  5c

2. How much money will I have if I **save** the following amounts?

- a. R2 + R1 =
- b. R5 + R20 =
- c. R10 + 20c =
- d. R20 + 50c =
- e. R1 + 5c =

3. How much money will I have left if I **spend** the following amounts:

- a. R5 – R2 =
- b. R15 – 50c =
- c. 50c – 2c =
- d. R12 – R1,50c =
- e. R5 – 0,70c =

4. Calculate the following:

- a. R12 + R2 – R5 =
- b. R2,50 + 50c – 20c =
- c. R15 + 5c – 20c =
- d. R5 + R 1 – R2 =
- e. R7,25 – R1,05 + 20c =

5. How many combinations can you make to get R1,00?

**Big five ...**

What does it mean if I pay with "buffaloes"?

Continue on an extra sheet of paper.

## Number patterns

13

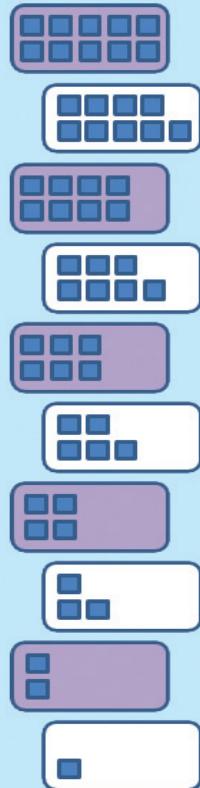


## Number patterns

4. Patterns are shown here. Explain each one in words.

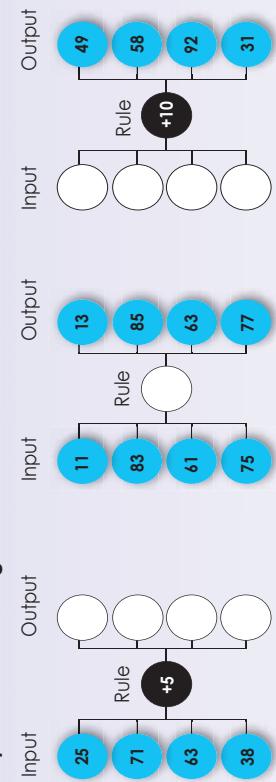
1	2	3	4	5	6	7	8	9
2	2	4	6	8	10	12	14	16
3	3	6	9	12	15	18	21	24
4	4	8	12	16	20	24	28	32
5	5	10	15	20	25	30	35	40
6	6	12	18	24	30	36	42	48
7	7	14	21	28	35	42	49	56
8	8	16	24	32	40	48	56	64
9	9	18	27	36	45	54	63	72

Describe the pattern.



Did you use words such as odd and even?

1. Complete the flow diagrams.



Input

Output

Input

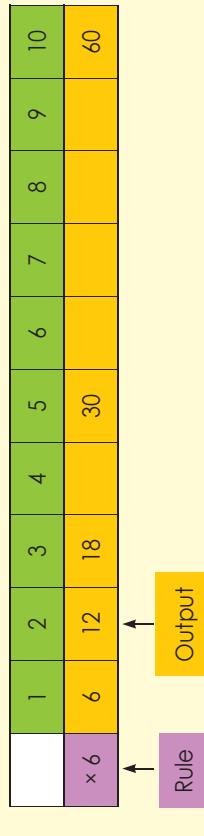
# Number patterns: flow diagrams and tables

14



2. Complete and label the following tables:

Example:



a.

Rule	$\times 9$
Input	1
Output	9
Rule	$\times 9$
Input	2
Output	18
Rule	$\times 9$
Input	3
Output	27
Rule	$\times 9$
Input	4
Output	36
Rule	$\times 9$
Input	5
Output	45
Rule	$\times 9$
Input	6
Output	54
Rule	$\times 9$
Input	7
Output	63
Rule	$\times 9$
Input	8
Output	72
Rule	$\times 9$
Input	9
Output	81
Rule	$\times 9$
Input	10
Output	90

b.

Rule	$\times 8$
Input	1
Output	8
Rule	$\times 8$
Input	2
Output	16
Rule	$\times 8$
Input	3
Output	24
Rule	$\times 8$
Input	4
Output	32
Rule	$\times 8$
Input	5
Output	40
Rule	$\times 8$
Input	6
Output	48
Rule	$\times 8$
Input	7
Output	56
Rule	$\times 8$
Input	8
Output	64
Rule	$\times 8$
Input	9
Output	72
Rule	$\times 8$
Input	10
Output	80

c.

Rule	$\times 4$
Input	1
Output	4
Rule	$\times 4$
Input	2
Output	8
Rule	$\times 4$
Input	3
Output	12
Rule	$\times 4$
Input	4
Output	16
Rule	$\times 4$
Input	5
Output	20
Rule	$\times 4$
Input	6
Output	24
Rule	$\times 4$
Input	7
Output	28
Rule	$\times 4$
Input	8
Output	32
Rule	$\times 4$
Input	9
Output	36
Rule	$\times 4$
Input	10
Output	40

d.

Rule	$\times 3$
Input	1
Output	3
Rule	$\times 3$
Input	2
Output	6
Rule	$\times 3$
Input	3
Output	9
Rule	$\times 3$
Input	4
Output	12
Rule	$\times 3$
Input	5
Output	15
Rule	$\times 3$
Input	6
Output	18
Rule	$\times 3$
Input	7
Output	21
Rule	$\times 3$
Input	8
Output	24
Rule	$\times 3$
Input	9
Output	27
Rule	$\times 3$
Input	10
Output	30

## Number pattern problems

Sign:

Date:

- a. Write a number pattern for the following: I am counting in 3s. I start with an even number smaller than 3.

- b. My output numbers are 1, 2, 3, 4 and 5. My rule is  $\times 10$ . What will my output numbers be?

- c. My input numbers are 1, 3, 4, 5 and 7. My rule is  $\times 10 \times 8$ . What will my output numbers be?



# Multiplication: $2 \times$ to $7 \times$ tables

## 2. Answer the following:

a. Four threes

b. 7 groups of 5

Show with your finger, how you will use the number board to show:

$\bullet 3 \times 4 = 12$   
 $\bullet 4 \times 3 = 12$

$\bullet 6 \times 7 = 42$   
 $\bullet 7 \times 6 = 42$

$\bullet 4 \times 5 = 20$   
 $\bullet 5 \times 4 = 20$

x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

## 1. Write down repeated addition, multiplication and division sums for the following:

a.		$\square$ rows of $\square$	i. $\square$ rows of $\square$
b.		i. $\square$ rows of $\square$	ii. Repeated addition: $\underline{\hspace{2cm}}$
c.		iii. Multiplication: $\underline{\hspace{2cm}}$	iv. Division: $\underline{\hspace{2cm}}$
Homework		v. $\square \times \square = \square$	

## 1. Write down repeated addition, multiplication and division sums for the following:

a.		$\square$ rows of $\square$	i. $\square$ rows of $\square$
b.		ii. Repeated addition: $\underline{\hspace{2cm}}$	iii. Multiplication: $\underline{\hspace{2cm}}$
c.		iv. Division: $\underline{\hspace{2cm}}$	v. $\square \times \square = \square$
Homework		vi. $\square \times \square = \square$	

## 1. Write down repeated addition, multiplication and division sums for the following:

a.		$\square$ rows of $\square$	i. $\square$ rows of $\square$
b.		ii. Repeated addition: $\underline{\hspace{2cm}}$	iii. Multiplication: $\underline{\hspace{2cm}}$
c.		iv. Division: $\underline{\hspace{2cm}}$	v. $\square \times \square = \square$
Homework		vi. $\square \times \square = \square$	

## How would you use this board?

x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

## Show with your finger, how you will use the number board to show:

3. Complete the sums and show the multiplication sum on the number line.

a.  $4 \times \square = 16$

b.  $6 \times \square = 24$

c.  $4 \times \square = 16$

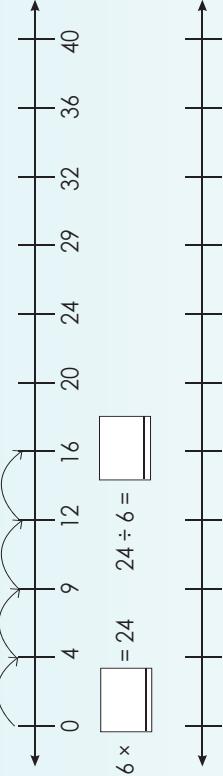
d.  $20 \div 5 = \square$

e.  $5 \times \square = 25$

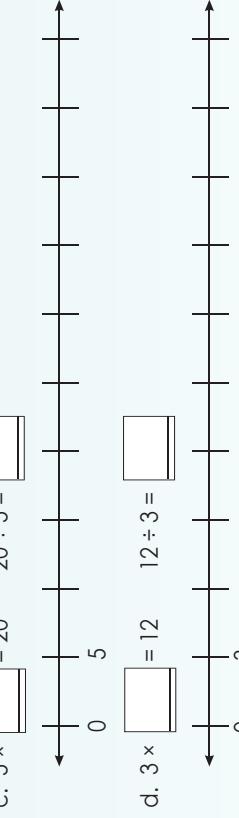
f.  $6 \times \square = 36$

g.  $16 \div 4 = \square$

h.  $24 \div 6 = \square$



## 2. Answer the following:



## 4. Fill in the answer.

a.  $2 \times 3 = \square$

b.  $2 \times 2 \times 5 = \square$

c. Double  $4 \times 2 = \square$

d.  $3 \times 2 \times 3 = \square$

e.  $4 \times 2 \times 2 = \square$

f. Double  $5 \times 2 = \square$

## Sweets and scores

- a. My friend has 8 sweets. I have twice as many. How many sweets do I have?  
b. I scored five times more than my friend. My friend's score was four. How much did I score?

# Multiplication: 8 x and 9 x tables

16

2. Complete the sums and show the multiplication sum on the number line.

a.  $4 \times \boxed{\quad} = 32$        $32 \div 4 = \boxed{\quad}$

b.  $6 \times \boxed{\quad} = 48$        $48 \div 6 = \boxed{\quad}$

c.  $9 \times \boxed{\quad} = 81$        $81 \div 9 = \boxed{\quad}$

3. Complete the table.

	1	2	3	4	5	6	7	8	9	10
$\times 8$	8	16	24	32	40	48	56	64	72	80

4. Fill in the answer.

a.  $2 \times 8 = \boxed{\quad}$       b.  $7 \times 9 = \boxed{\quad}$

d.  $1 \times 8 = \boxed{\quad}$       e.  $3 \times 9 = \boxed{\quad}$

g.  $3 \times 3 \times 8 = \boxed{\quad}$       h.  $5 \times 8 = \boxed{\quad}$

j.  $5 \times 2 \times 9 = \boxed{\quad}$

5. Answer the following:

a. Eight 3s  
\_\_\_\_\_  
b. Four groups of 9  
\_\_\_\_\_

c. Nine 10s  
\_\_\_\_\_  
d. 7 groups of 8  
\_\_\_\_\_

e. Eight 9s  
\_\_\_\_\_  
f. Eight groups of 8  
\_\_\_\_\_

g. \_\_\_\_\_  
h. \_\_\_\_\_

i. \_\_\_\_\_  
j. \_\_\_\_\_

There are five spiders sitting on the wall. How many legs do they have altogether?

If a is 3 groups of 8. What will b and c be? Write down repeated addition, multiplication and division sums for the following:

a.	_____ rows of _____	b.	_____ rows of _____	c.	Homework
i.	Repeated addition: $8 + 8 + 8 = 24$	i.	Repeated addition: _____	ii.	Repeated addition: _____
ii.	Multiplication: $8 \times 3 = 24$	ii.	Multiplication: _____	iii.	Multiplication: _____
iii.	Division: $24 \div 3 = 8$	iii.	Division: _____	iv.	Division: _____
iv.		iv.		v.	

1. Complete the following:

a.  $1 \times 8 = \boxed{\quad}$        $2 \times 8 = \boxed{\quad}$        $3 \times 8 = \boxed{\quad}$        $4 \times 8 = \boxed{\quad}$        $5 \times 8 = \boxed{\quad}$

b.  $6 \times 8 = \boxed{\quad}$        $7 \times 8 = \boxed{\quad}$        $8 \times 8 = \boxed{\quad}$        $9 \times 8 = \boxed{\quad}$        $10 \times 8 = \boxed{\quad}$

c.  $16 \div 8 = \boxed{\quad}$        $32 \div 8 = \boxed{\quad}$        $56 \div 8 = \boxed{\quad}$        $48 \div 8 = \boxed{\quad}$        $72 \div 8 = \boxed{\quad}$

d.  $24 \div 8 = \boxed{\quad}$        $40 \div 8 = \boxed{\quad}$        $8 \div 8 = \boxed{\quad}$        $64 \div 8 = \boxed{\quad}$        $80 \div 8 = \boxed{\quad}$

e.  $1 \times 9 = \boxed{\quad}$        $2 \times 9 = \boxed{\quad}$        $3 \times 9 = \boxed{\quad}$        $4 \times 9 = \boxed{\quad}$        $5 \times 9 = \boxed{\quad}$

f.  $6 \times 9 = \boxed{\quad}$        $7 \times 9 = \boxed{\quad}$        $8 \times 9 = \boxed{\quad}$        $9 \times 9 = \boxed{\quad}$        $10 \times 9 = \boxed{\quad}$

g.  $18 \div 9 = \boxed{\quad}$        $36 \div 9 = \boxed{\quad}$        $54 \div 9 = \boxed{\quad}$        $72 \div 9 = \boxed{\quad}$        $81 \div 9 = \boxed{\quad}$

h.  $27 \div 9 = \boxed{\quad}$        $45 \div 9 = \boxed{\quad}$        $9 \div 9 = \boxed{\quad}$        $63 \div 9 = \boxed{\quad}$        $90 \div 9 = \boxed{\quad}$

Spiders on a wall

Sign: \_\_\_\_\_ Date: \_\_\_\_\_

# Multiplication: 1 x and 10 x table

17



8

### 3. Answer the questions:

a. Identify the pattern. What do you think will happen when we multiply with 100?

$1 \times 1 = 1$	$1 \times 10 = 10$
$2 \times 1 = 2$	$2 \times 10 = 20$
$3 \times 1 = 3$	$3 \times 10 = 30$
$4 \times 1 = 4$	$4 \times 10 = 40$
$5 \times 1 = 5$	$5 \times 10 = 50$
$6 \times 1 = 6$	$6 \times 10 = 60$
$7 \times 1 = 7$	$7 \times 10 = 70$
$8 \times 1 = 8$	$8 \times 10 = 80$
$9 \times 1 = 9$	$9 \times 10 = 90$



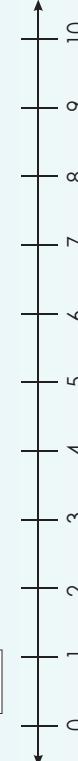
If  $3 \times 1 = 3$ , then  
 $3 \times 10 = 30$ , and  
 $3 \times 100 = 300$

a. How fast can you calculate the answers?

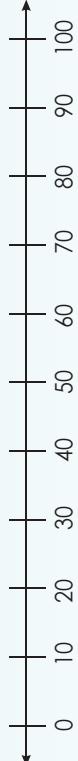
$1 \times 10 =$ <input type="text"/>	$7 \times 10 =$ <input type="text"/>
$2 \times 10 =$ <input type="text"/>	$2 \times 10 =$ <input type="text"/>
$3 \times 10 =$ <input type="text"/>	$5 \times 10 =$ <input type="text"/>
$3 \times 10 =$ <input type="text"/>	$10 \times 10 =$ <input type="text"/>
$9 \times 10 =$ <input type="text"/>	$4 \times 10 =$ <input type="text"/>

1. Show the multiplication sum on the number lines.

a.  $4 \times 1 =$



b.  $4 \times 10 =$



2. Identify the patterns and describe each.

Example:

My mother bought 50 chocolate at R9 each. I help her to calculate the total cost. This is what I did in my head.

So  $50 \times R9$  will give me R450

$5 \times R9 = R45$

4. My father buys 60 bottles of juice at R6 each. How much did he pay altogether for the juice?

5. Answer the questions:

a. Find the missing number:

$2 \times$ <input type="text"/> $= 20$	$2 \times$ <input type="text"/> $= 200$
$4 \times$ <input type="text"/> $= 80$	$2 \times$ <input type="text"/> $= 800$
$9 \times$ <input type="text"/> $= 27$	$9 \times$ <input type="text"/> $= 2700$

c. What do you notice?

d. How many loaves of bread did my mother buy if she paid R450 for them?

$\times$	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

### Loaves of bread

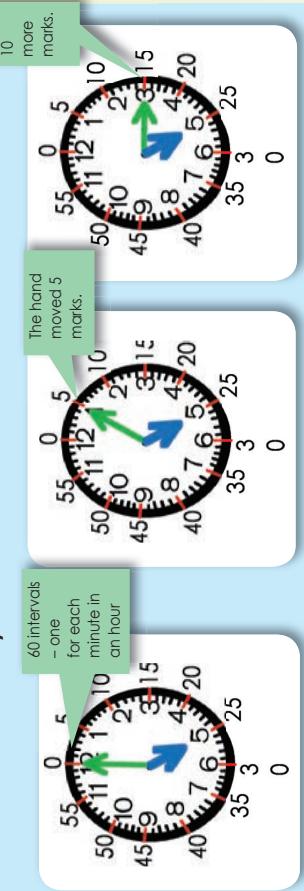
My mother bought 40 loaves of bread at R8 each. My father bought 20 loaves at R9 each. How much did they pay altogether for the bread?

Date: \_\_\_\_\_

# Time

18a

What is the time? Give your answer in hours and minutes.



5 minutes later → [5:05] [green dot]

10 minutes later → [5:15] [green dot]

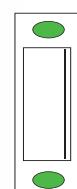
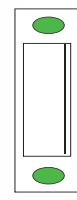
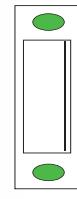
1. Draw a line from the clock face to the digital clock with the same time.

a. b. c. d.



2. Write the following as digital time.

a. b.



3. Write down in words the times shown on the clock:



c. \_\_\_\_\_



b. \_\_\_\_\_



a. \_\_\_\_\_



e. \_\_\_\_\_



h. \_\_\_\_\_



j. \_\_\_\_\_



g. \_\_\_\_\_



f. \_\_\_\_\_



i. \_\_\_\_\_



d. \_\_\_\_\_



c. \_\_\_\_\_

continued ↗  
51

Date: \_\_\_\_\_

4. Draw in the following times on the clocks.



a. 1 o'clock



b. 3 o'clock



c. 8 o'clock



d. 11 o'clock



e. 3:45



g. 9:30

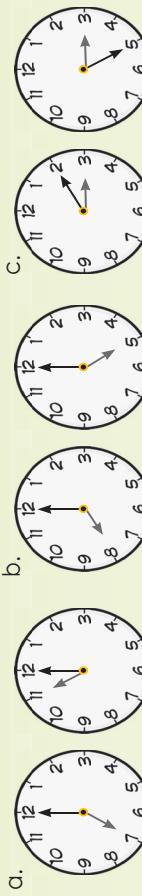


f. 15:20



h. 10:40

5. What is the duration from clock 1 to clock 2?



b.



d.



f.

6. I left home at 06:45 and arrived at school at 07:25. How long did it take me to get there?

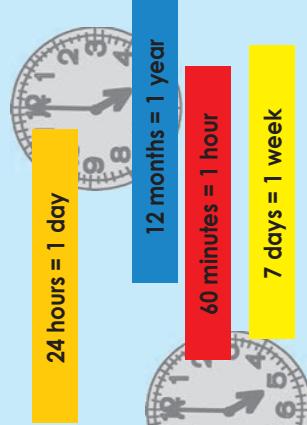
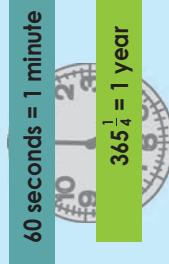
How many ...

- ... hours do you sleep each night?
- ... hours do you go to school each day?
- ... minutes do you take to eat your lunch?
- ... minutes do you take to get dressed in the morning?

## More time

19a

What is the time?



### 1. Answer these questions on seconds, minutes and hours.

- The **red hand** on the clock shows us  .
- It takes  seconds to complete one circle.
- seconds = 1 minute.
- The **green hand** on the clock shows us  .
- It takes  minutes to complete one circle.
- minutes = 1 hour.
- The **blue hand** on the clock shows us  .
- It takes  hours to complete one circle.
- hours = one day.
- If the **red hand** moves from 12 to 1, it moves   seconds.
- If the **green hand** moves from 12 to 2, it moves   minutes.
- If the **blue hand** move from 12 to 5, it moves   hours.

### 2. Complete the following:

a.	Minutes	1	2	3	4
	Seconds	60			

b.	Hours	1	2	3	4
	Minutes				

c.	Day	1	2	3	4
	Hours				

### 3. Complete the questions on days, weeks, months and years.

a. Complete the table below filling in the number of days in each month.

December			
November			
October			
September			
August			
July			
June			
May			
April			
March			
February			
January			
Month	Days		

- Why or why not?
- Will February always have the same number of days?

c. Complete the table and then answer the questions below.

Total				
Month	December	November	October	September
Month	August	July	June	May
Month	April	March	February	January
Month	Days			
Month	Days left			

- Note that the number of days left depends on when you do this.
- How many months are there in a year?
  - How many days are there in a year?
  - Will we have the same number of days each year?

Why or why not?

### Calendar art

Make a calendar for the month of your birth.  
Decorate it with a photograph or a drawing of yourself.  
Give it to someone special.

continued

## Calculation of time

19b

### 2. Look at the December calendar and answer the questions.

a. On what day is New Year's Day?

December 2015						
Sun	Mon	Tues	Wed	Thur	Fri	Sat
					1	2
					3	4
					5	
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

b. What happens in South Africa if a public holiday is on a Sunday?


c. How many days is it from Christmas to New Year's Day?


d. On what day did the school start this year? How many days ago was it?

July 2015						
Sun	Mon	Tues	Wed	Thur	Fri	Sat
					1	2
					3	4
					5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

3. Complete the calendar for the month your birthday is in.

June 2015						
Sun	Mon	Tues	Wed	Thur	Fri	Sat
					1	2
					3	4
					5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Look at the month of April and complete the table.

April 2015						
Dates from ___ to ___	Number of days					
1 – 15 April						
7 – 11 April						
10 – 13 April						
27 – 30 April						
20 – 25 April						

1. Use the June and July calendar to fill in the table below.

June 2015						
Sun	Mon	Tues	Wed	Thur	Fri	Sat
					1	2
					3	4
					5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Dates	Number of days	Name of starting day	What will the name of the next day after the last date be?
a. 25 June – 29 June			
b. 27 June – 2 July			
c. 24 June – 1 July			
d. 30 June – 3 July			
e. 16 June – 2 August			

Count the days

How many days will it be from 23 February to 12 July? Will it be the same for every year?

Sign:

Date:

# Data

20

## Write your name as a code.

Decode. What is my name?  
22 5 18 15 14 9 31



A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

## 1. Complete the following:

- a. Write down your name. \_\_\_\_\_
- b. How many letters do you have in your name? \_\_\_\_\_
- c. Write down a friend's name. \_\_\_\_\_
- d. How many letters does her or his name have? \_\_\_\_\_

## Names in my class

Peter	Palessa	Sue	Thabo	Jabu
Gugu	Jonathan	Ann	Musa	Zander
Liesel	William	Jolene	Sipho	Lucy
Veronica	John	Lee	Sam	Nomsa
Mpho	Andile	Steven	Modli	Bongi

## 2. Use the table above to complete this table.

Names with ___ letters	Tally
3	
4	
5	
6	
7	
8	

## Tally competition ...

In pairs see who can count the tallies the fastest.



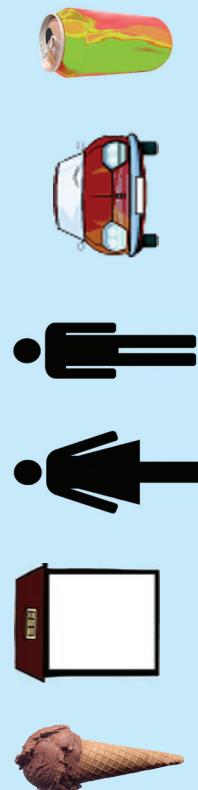
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Date:

## Pictographs and bar graphs

21a

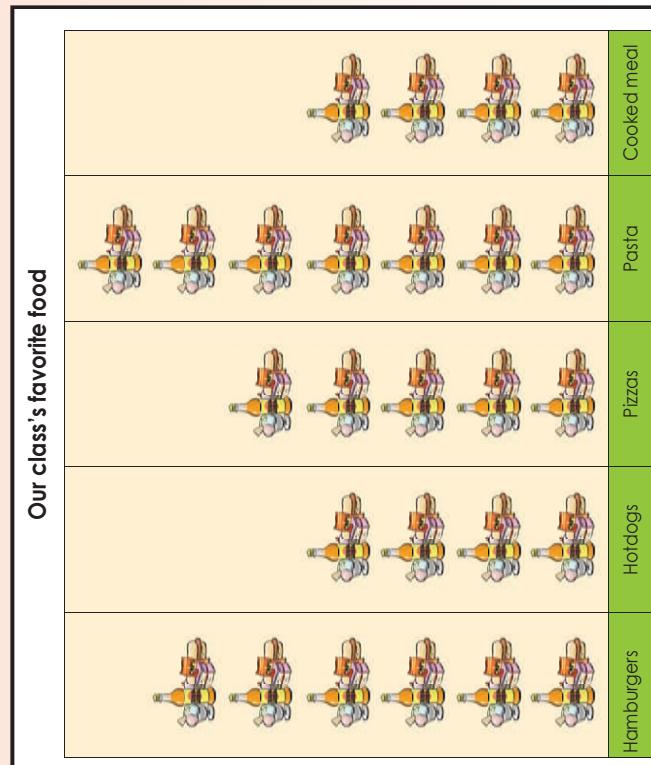
### What is a pictograph?

A Pictograph is a way of showing data using pictures. Each picture is a symbol of (a certain number of) the physical objects being counted.



1. In the pictograph below, what does each represent? How do you know?

2. Draw the key of this graph.



### 3. Draw a pictograph to represent the following information.

In our science class, our task was to go and search for insects in our gardens in order to see what insects there are at this time of year. I found the following in a section of 2 square metres in my garden: 10 rose beetles, one ladybird, three bees, two flies, nine ants and six caterpillars.

### 4. Based on the above graph:

- What time of year do you think it might be? (During which season(s) might certain insects be found generally?)
- If I looked in a section of 4 square metres, more or less how many of each kind of insect could I expect to find?
- Do you think I was looking at a patch of lawn or a flower bed? Why?

5. Suggest some data that would be easy and interesting to see/read in a pictograph (rather than in a bar graph).

6. Who might be interested in the graph you've suggested above, and why?

## Pictographs and bar graphs continued

21b

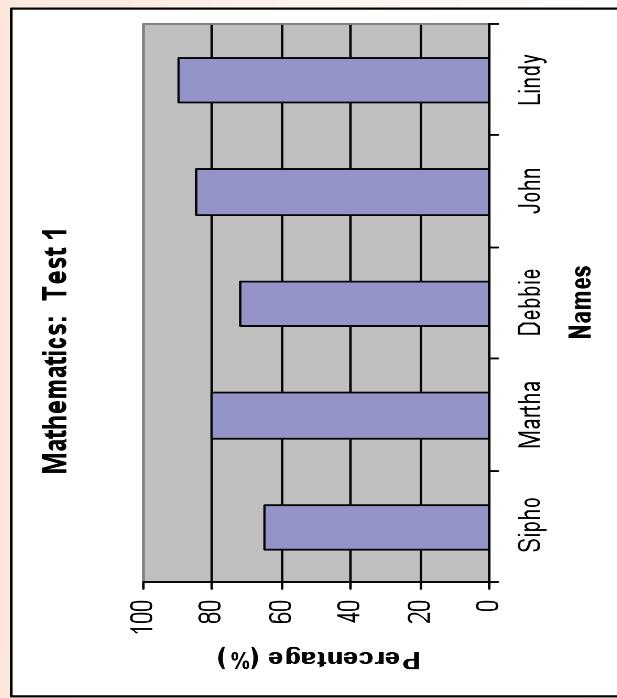
- 9. Draw a bar graph of this information.**  
Our class voted for our class representative on the LRC, and the following learners each got the following number of votes:

Sifiso: 8  
Nontobeko: 17  
Jannie: 5  
Faith: 10  
Shelly: 9

- 7. Every bar graph should have at least three labels. What are they?**

8. What is this a graph of? How do you know?

**Mathematics: Test 1**



- 10. According to your graph:**  
a. How many learners voted?

b. Who won?

- c. Would you say that the winner won 'by a landslide' (by a big majority)? Explain your answer.

### Democracy in the classroom

You are the 'manager' of the class representative election winner. Make a poster for the classroom, letting everyone know who won and by how much. Use a graph on the poster. It must be an eye-catching poster that shows how proud the whole class are about having elected their new class representative.

Evaluate each other's posters. Look especially at how the graphs were used – were they used creatively to help make the class and winner look really good?

Sign \_\_\_\_\_  
Date: \_\_\_\_\_

## 2-D shapes

22a

A polygon is a shape formed by three or more straight lines. Identify the polygons.  
A regular polygon has all its angles equal and all its sides of equal length.



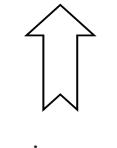
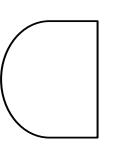
1. Draw:

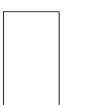
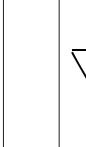
a. Straight line

1. Draw a:

b. Curved line

2. Say if the sides are curved, straight or curved and straight.

a.  b.  c. 

d.  e.  f. 

3. Draw the following on the grid below:

- a. A shape with only **curved** sides.
- b. A shape with **straight** and **curved** sides.
- c. A shape with **straight** sides only.

3. Draw the following on the grid below:

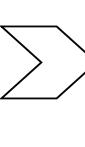
4. Can a shape have three straight sides and one curved side?

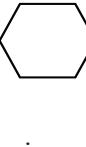
4. Can a shape have three straight sides and one curved side?

5. Name the shape and give the number of sides it has.

a.  b.  c. 

Rectangle (4)

d.  e.  f. 

g.  h.  i. 

6. Draw the following on the grid below:

- a. Triangle
- b. Quadrilateral
- c. Pentagon
- d. Hexagon

6. Draw the following on the grid below:

continued

65

Sign \_\_\_\_\_ Date \_\_\_\_\_

## 2-D shapes continued



7. Draw the following shapes. All their sides must be equal.

a. triangle

b. square

c. pentagon

d. hexagon

e. quadrilateral

f. polygon of your choice

8. Draw a polygon with 10 equal sides.

9. Draw the following shapes. Their sides must be unequal.

a. triangle

b. octagon

c. pentagon

f. polygon of your choice

e. quadrilateral

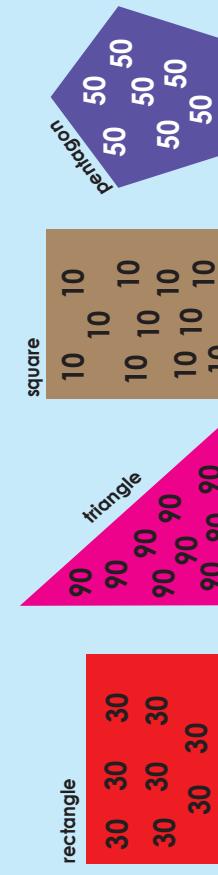
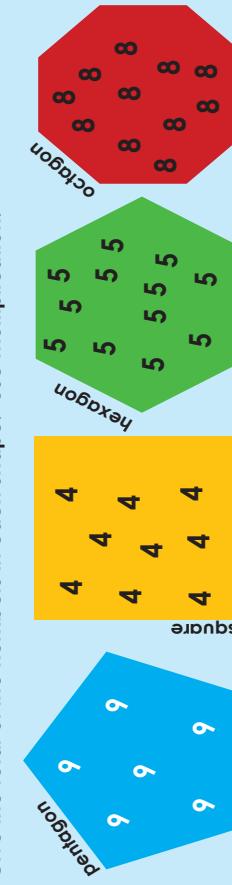
d. hexagon

# Multiplication: 1-digit by 2-digit and 2-digit by 2-digit



2. Find the multiples. The example below will help you to complete the other tables.

Give the total of the numbers in each shape. Use multiplication.



1. Complete the table below.

Number	$\times 10$	$\times 20$	$\times 30$	$\times 40$	$\times 50$
4					
5					
7					
8					
9					
10					
20					
30					
40					
50					

**Multiples of 2**

2	4	6	8	10	12
2	4	6	8	10	12
2	4	6	8	10	12
2	4	6	8	10	12
2	4	6	8	10	12

The multiples of 2 are 2, 4, 6, 8, 10, 12,

**Multiples of 3**

3	6	9	12	15	18
3	6	9	12	15	18
3	6	9	12	15	18
3	6	9	12	15	18
3	6	9	12	15	18

a. The multiples of 3 are 3, 6, 9,

**Multiples of 5**

5	10	15	20	25	30
5	10	15	20	25	30
5	10	15	20	25	30
5	10	15	20	25	30
5	10	15	20	25	30

b. The multiples of 5 are 5, 10, 15,

# Multiplication: 1-digit by 2-digit and 2-digit by 2-digit continued

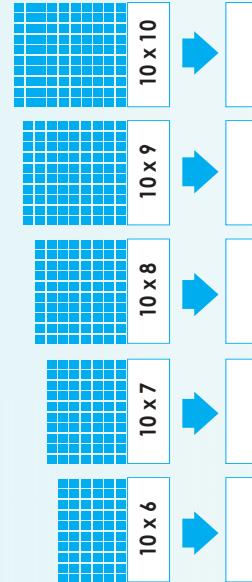
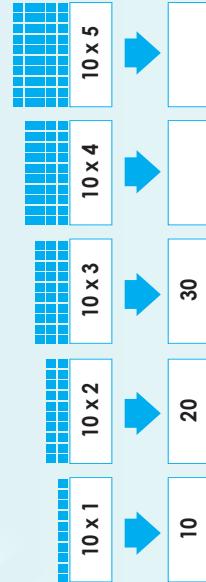
**23b**

8

4. Use the method below to calculate the multiplication sums. Write the steps in your workbook.

a.  $14 \times 6$

Multiples of 10



The multiples of 10 are       ,       ,       ,       ,       .

3. Are these multiples of (extend the pattern):

- 10? 50, 60, 70, 80,       ,       ,
- 20? 260, 280, 300, 320,       ,       ,
- 40? 160, 200, 240, 280,       ,       ,
- 100? 200, 300, 400, 500,       ,       ,
- 90? 180, 270, 360, 450,       ,       ,

Example:

$$\begin{array}{r} 16 \times 7 \\ \boxed{10} \quad \boxed{6} \\ = (10+6) \times 7 \\ = (10 \times 7) + (6 \times 7) \\ = 70 + 42 \\ = 70 + 40 + 2 \\ = 110 + 2 \\ = 112 \end{array}$$

c.  $\square \times \square$

$$\begin{array}{r} \square \times \square \\ = \square \quad \square \end{array}$$

c.  $37 \times 8$

$$\begin{array}{r} \square \times \square \\ = \square \quad \square \end{array}$$

b.  $25 \times 3$

$$\begin{array}{r} \square \times \square \\ = \square \quad \square \end{array}$$

How fast are you?

$$\begin{array}{r} \square \times \square \\ = \square \quad \square \end{array}$$



What to do:

- The aim is to see how fast you can fill in the answers in the white rectangles.
- Multiply each colour number on the circle by the same colour rectangle's to get your answer.

c.

Term 1



Date: \_\_\_\_\_

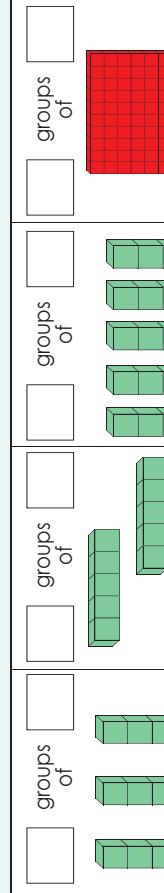
# Grouping problems

24a

Tell a story about the groups.



1. How many groups are there?



Addition sum: <input type="text"/>	Multiplication sum: <input type="text"/>	Addition sum: <input type="text"/>	Multiplication sum: <input type="text"/>
Division sum: <input type="text"/>	Division sum: <input type="text"/>	Division sum: <input type="text"/>	Division sum: <input type="text"/>
Division sum: <input type="text"/>	Division sum: <input type="text"/>	Division sum: <input type="text"/>	Division sum: <input type="text"/>

2. Complete drawings and multiplication and division sums of the following:

4 groups of each 	5 groups of 2 each Multiplication sum: <input type="text"/> $4 \times 2 = 8$ 8 shared between 4	5 groups of 2 each Multiplication sum: <input type="text"/> 8 shared between 4	6 groups of 2 each Multiplication sum: <input type="text"/> 8 shared between 4
4 groups of 10 each 	2 groups of 100 each Division sum: <input type="text"/> $8 \div 2 = 4$	4 groups of 10 each Division sum: <input type="text"/>	6 groups of 100 each Division sum: <input type="text"/>
200 shared between 2 Division sum: <input type="text"/>	600 shared between 6 Division sum: <input type="text"/>	200 shared between 2 Division sum: <input type="text"/>	600 shared between 6 Division sum: <input type="text"/>

continued

# Grouping problems continued

**24b**



8  
★

**Example 1:**  
 $84 \div 4$

Let us write it as  $4 \times \square = 84$

You can say  $4 \times 20 = 80$ . You still need 4

$4 \times 2 = 8$

So  $84 \div 4 = 21$

**3. Calculate the following:**

a.  $37 \div 3 =$

c.  $88 \div 4 =$

a.  $37 \div 3 =$

c.  $88 \div 4 =$

b.  $98 \div 5 =$

b.  $98 \div 5 =$

d.  $67 \div 5 =$

d.  $67 \div 5 =$

e.  $39 \div 3 =$

e.  $39 \div 3 =$

f.  $78 \div 6 =$

f.  $78 \div 6 =$

**Example 2:**

$$\begin{aligned} 75 \div 4 &= (70 + 5) \div 4 \\ &= (70 \div 4) + (5 \div 4) \\ &= (17 \text{ rem } 2) + (5 \div 4) \\ &= 17 + (7 \div 4) \\ &= 17 + 1 \text{ rem } 3 \\ &= 18 \text{ rem } 3 \end{aligned}$$

**4. Calculate the following:**

c.  $89 \div 4 =$

b.  $98 \div 5 =$

a.  $37 \div 3 =$

c.  $89 \div 4 =$

d.  $67 \div 5 =$

d.  $67 \div 5 =$

e.  $38 \div 3 =$

e.  $38 \div 3 =$

f.  $79 \div 6 =$

f.  $79 \div 6 =$

**Sweet money ...**

- a. I have 97 sweets. I need to divide it amongst 5 children. How many sweets will be left over?
- b. I have R75. How many cup cakes of R8 can I buy? Will I get any change?
- c. My mother bought 80 metres of fabric to make scatter cushions for 9 people. How much fabric will she have for each person?

Date: \_\_\_\_\_

# Numbers 0 to 2 000

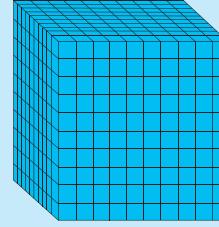
25

8

# Term 2

3. Write the numbers in question 2 in words.

How many of these blocks do you need in order to get a total of 2 000 small cubes?



1. Complete the following:

a.  $1\ 000 + 500 + 90 + 3 = \underline{1\ 593}$

b.  $1\ 000 + 900 + 10 + 6 = \underline{1\ 916}$

c.  $1\ 000 + 200 + 9 = \underline{1\ 209}$

d.  $1\ 000 + 30 + 5 = \underline{1\ 035}$

e.  $1\ 000 + 2 = \underline{1\ 002}$

2. Write the number in the correct column:

	Thousands	Hundreds	Tens	Units
a. 1 234				
b. 948				
c. 1 028				
d. 1 607				
e. 1 060				

4. Complete the following using the first question to guide you.

a.  $1\ 456 = 1\ \text{thousand} + 4\ \text{hundreds} + 5\ \text{tens} + \underline{6}\ \text{units}$

b.  $1\ 234 = \underline{\quad\quad\quad}$

c.  $1\ 845 = \underline{\quad\quad\quad}$

d.  $1\ 304 = \underline{\quad\quad\quad}$

e.  $1\ 003 = \underline{\quad\quad\quad}$

# More numbers 0 to 2 000

26

**3. What is the value of the underlined digit?**

- 849 \_\_\_\_\_
- 1 954 \_\_\_\_\_
- 1 489 \_\_\_\_\_
- 1 777 \_\_\_\_\_
- 1 841 \_\_\_\_\_
- 1 847 \_\_\_\_\_

**4. Complete the following:**

3    9    2    6

**2. Fill in < or >.**

- 589  598
- 948  849
- 1 030  1 003
- 1 540  1 504
- 1 418  1 518
- 1 356  1 299
- 1 988  1 898
- 1 767  1 766
- 1 847  1 784
- 1 414  1 441

**1. Arrange the numbers from the smallest to the biggest.**

- 1 231, 1 213, 1 312, 1 132, 1 123, \_\_\_\_\_
- 1 945, 1 549, 1 559, 1 954, 1 459, \_\_\_\_\_
- 1 436, 1 346, 1 634, 1 364, 1 654, \_\_\_\_\_
- 1 050, 1 005, 1 500, 1 505, 1 055, \_\_\_\_\_
- 1 414, 1 441, 1 411, 1 144, 1 444, \_\_\_\_\_

**3. Find the matching card and colour it the same colour. We did the first one for you.**



Sign \_\_\_\_\_ Date: \_\_\_\_\_

## More rounding off to the nearest 10

27

- Draw a:
- circle around the number that will help you to round off to the nearest ten.
  - square around the number that will change when you round off to the nearest ten.

**7** **8**      3 6 9

2 4 1 5

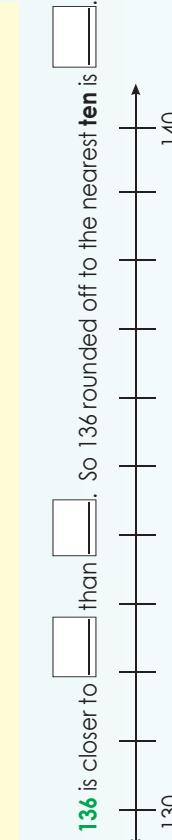
What do you notice?

- Why do you think we round off numbers?
1. Complete the sentences and round the numbers off to the nearest ten using the number lines.

a. **56** is closer to 60 than 50. So 56 rounded off to the nearest **ten** is **56**.



b. **136** is closer to **140** than **130**. So 136 rounded off to the nearest **ten** is **140**.



c. **284** is closer to **280** than **290**. So 284 rounded off to the nearest **ten** is **280**.



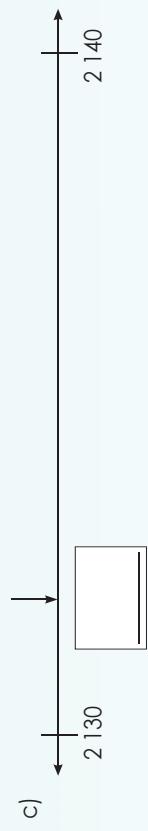
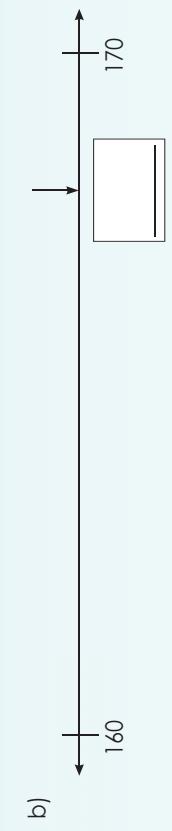
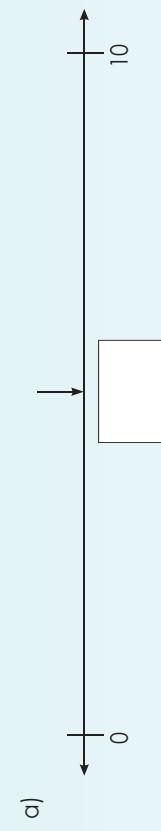
d. **1799** is closer to **1800** than **1700**. So 1799 rounded off to the nearest **ten** is **1800**.



### 2. Round off each of the following numbers to the nearest 10:

a)  $15 \approx$        b)  $43 \approx$        c)  $9672 \approx$

### 3. Estimate the position of the arrow on the number line.



4. Circle the number which you look at when deciding whether to round up or down to the nearest 10. Underline the number which you look at to tell you what ten you will round up or down to.

- a) 59      b) 734      c) 1665

### Rounding off ...

Create a picture which explains to somebody who does not understand the concept of "rounding off".  
(For example, if you are walking from ... to ... and it starts to rain, which place is closer?) Remember to show very carefully the point at which you start rounding off in the opposite direction.

## More rounding off to the nearest 100

28

- Draw a:
- circle around the number that will help you to round off to the nearest hundred.
  - square around the number that will change when you round off to the nearest hundred.

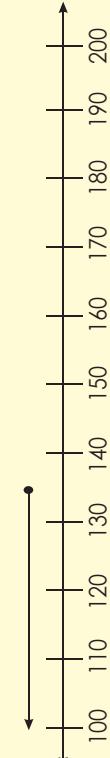
**2** **3** **5**      **4** **5** **8**

**2** **3** **2** **9**

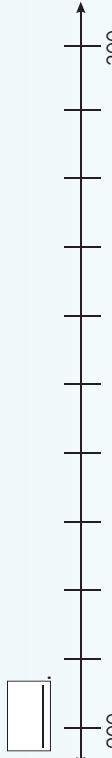
What do you notice?

1. Complete the sentences and round the numbers off to the nearest hundred using the number lines.

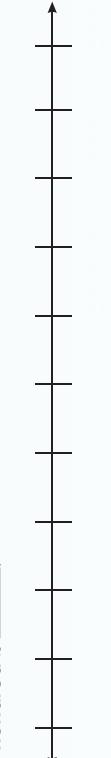
a. **137** is closer to 100 than 200. So 137 rounded off to the nearest **hundred** is **\_\_\_\_\_**.



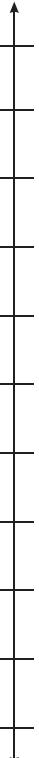
b. **258** is closer to **\_\_\_\_\_** than **\_\_\_\_\_**. So 258 rounded off to the nearest **hundred** is **\_\_\_\_\_**.



c. **8457** is closer to **\_\_\_\_\_** than **\_\_\_\_\_**. So 8457 rounded off to the nearest **hundred** is **\_\_\_\_\_**.



d. **2199** is closer to **\_\_\_\_\_** than **\_\_\_\_\_**. So 2199 rounded off to the nearest **hundred** is **\_\_\_\_\_**.



2. Round off each of the following numbers to the nearest 100:

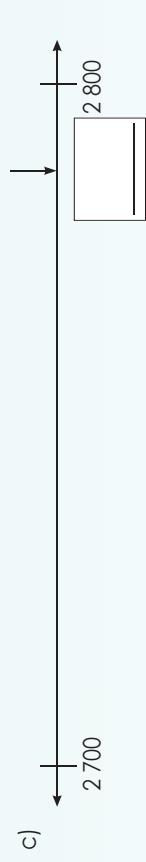
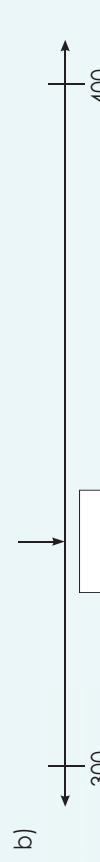
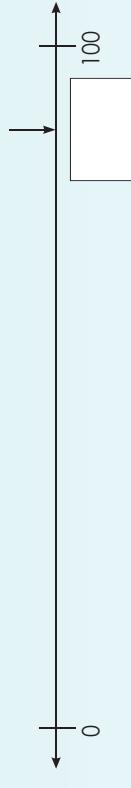
a)  $679 \approx$  **\_\_\_\_\_**

b)  $1202 \approx$  **\_\_\_\_\_**

c)  $1681 \approx$  **\_\_\_\_\_**

3. Estimate the position of the arrow on the number line.

a)



- c) 8982  
b) 2743  
a) 599

More rounding off

- What does it mean to round off to the nearest:  
• round  
• centimetre

Date:

Sign:

# More number sentences

29

## 4. Fill in the missing number.

a. $28 + \boxed{\quad} = 30$	b. $72 + \boxed{\quad} = 80$	c. $56 + \boxed{\quad} = 60$	d. $54 + \boxed{\quad} = 60$
e. $42 + \boxed{\quad} = 50$	f. $37 + \boxed{\quad} = 40$	g. $91 + \boxed{\quad} = 100$	h. $62 + \boxed{\quad} = 80$
i. $95 + \boxed{\quad} = 100$	j. $27 + \boxed{\quad} = 50$	k. $51 + \boxed{\quad} = 100$	l. $61 + \boxed{\quad} = 90$
m. $36 + \boxed{\quad} = 50$	n. $25 + \boxed{\quad} = 50$	o. $38 + \boxed{\quad} = 70$	p. $21 + \boxed{\quad} = 50$
q. $17 + \boxed{\quad} = 50$	r. $29 + \boxed{\quad} = 80$	s. $55 + \boxed{\quad} = 90$	t. $17 + \boxed{\quad} = 100$

## 5. Fill in the missing number.

a. $1560 + \boxed{\quad} = 1700$	b. $1250 + \boxed{\quad} = 1500$
c. $1380 + \boxed{\quad} = 1500$	d. $1820 + \boxed{\quad} = 1900$
e. $1190 + \boxed{\quad} = 1500$	f. $1080 + \boxed{\quad} = 1500$
g. $1230 + \boxed{\quad} = 1800$	h. $1500 + \boxed{\quad} = 1980$
i. $1370 + \boxed{\quad} = 1500$	j. $1400 + \boxed{\quad} = 2000$

## 6. Fill in the missing number.

a. $1733 + \boxed{\quad} = 1800$	b. $1256 + \boxed{\quad} = 1500$
c. $1612 + \boxed{\quad} = 1800$	d. $1347 + \boxed{\quad} = 1400$
e. $1431 + \boxed{\quad} = 1600$	f. $1677 + \boxed{\quad} = 2000$
g. $1697 + \boxed{\quad} = 2000$	h. $1244 + \boxed{\quad} = 2000$
i. $1009 + \boxed{\quad} = 1500$	j. $1314 + \boxed{\quad} = 2000$

## Quick recall.

a. $46 + \boxed{\quad} = 50$	b. $15 + \boxed{\quad} = 20$
c. $23 + \boxed{\quad} = 30$	d. $29 + \boxed{\quad} = 40$
e. $55 + \boxed{\quad} = 60$	f. $74 + \boxed{\quad} = 80$
g. $86 + \boxed{\quad} = 90$	h. $45 + \boxed{\quad} = 60$
i. $91 + \boxed{\quad} = 100$	j. $75 + \boxed{\quad} = 100$

## 2. Fill in the missing number.

a. $45 + \boxed{\quad} = 100$	b. $32 + \boxed{\quad} = 50$
c. $51 + \boxed{\quad} = 80$	d. $56 + \boxed{\quad} = 90$
e. $15 + \boxed{\quad} = 50$	f. $95 + \boxed{\quad} = 120$
g. $69 + \boxed{\quad} = 100$	h. $44 + \boxed{\quad} = 150$
i. $75 + \boxed{\quad} = 150$	j. $31 + \boxed{\quad} = 120$

## 3. Fill in the missing number.

a. $122 + \boxed{\quad} = 150$	b. $102 + \boxed{\quad} = 150$
c. $135 + \boxed{\quad} = 180$	d. $141 + \boxed{\quad} = 200$
e. $156 + \boxed{\quad} = 200$	f. $115 + \boxed{\quad} = 200$
g. $120 + \boxed{\quad} = 250$	h. $200 + \boxed{\quad} = 325$
i. $215 + \boxed{\quad} = 320$	j. $250 + \boxed{\quad} = 550$

### Number card fun ...

**What you need:**  
Number (card) cards.



In this game we will only play with the 1,000 card, not 2,000 to 9,000.

### What to do:

- Play in pairs.
- The first player chooses a one thousand card and then one of each: hundreds, tens and unit card, and displays them as a number.
- The first player that fills the number up to the nearest 2,000, gets a point.
- Do the same, but player two chooses the cards. Repeat five times.
- The player with the highest score is the winner.



# 8

## Addition up to 4-digit numbers



**30a**

8

## Addition up to 4-digit numbers

**Example:**

$$\begin{array}{r}
 732 + 614 \\
 \hline
 \boxed{700} \quad \boxed{30} \quad \boxed{2} \quad + \quad \boxed{600} \quad \boxed{10} \quad \boxed{4}
 \end{array}$$

$$\begin{aligned}
 &= 700 + 30 + 2 + 600 + 10 + 4 \\
 &= 1300 + 40 + 6 \\
 &= 1300 + 300 + 40 + 6 \\
 &= 1346
 \end{aligned}$$

3. Use both methods above to calculate the following. Write down the steps.

a.  $1002 + 487 =$

Continue on an extra sheet of paper.

b.  $295 + 1703 =$

Continue on an extra sheet of paper.

c.  $800 + 706 =$

Continue on an extra sheet of paper.

What is the difference between the numbers?									
850	900	950	1 000	1 050	1 100	1 150	1 200	1 250	1 300
203	303	403	503	603	703	803	903	10 03	1103
1 050	1 080	1 110	1 140	1 170	1 200	1 230	1 260	1 290	1 320
40	160	280	400	520	640	760	880	1 000	1 120
550	700	850	1 000	1 150	1 300	1 450	1 600	1 750	1 900

1. What number comes next?

a. 1 000, 1 120, 1 240,

b. 900, 950, 1 000,

c. 150, 180, 210,

d. 207, 307, 407,

2. Complete the table:

Number	Add 10	Add 100	Add 1 000
808			
32			
450			
752			
990			



# Adding by filling the tens

31



Which sum is easier to add? Why?

$$8 + 7 = \boxed{\quad} \text{ or } 10 + 5 = \boxed{\quad}$$

$$10 + 4 = \boxed{\quad} \text{ or } 7 + 7 = \boxed{\quad}$$

$$9 + 2 = \boxed{\quad} \text{ or } 10 + 1 = \boxed{\quad}$$

$$10 + 2 = \boxed{\quad} \text{ or } 7 + 5 = \boxed{\quad}$$

In one minute, how many combinations can you find that add up to 50?



## 3. Fill up the hundreds.

Example: 486

$$486 + 14 = 500$$

- a. 368  
b. 371  
c. 684
- d. 519  
e. 225  
f. 568
- g. 274  
h. 479  
i. 383

## 2. Fill up the tens.

$$\begin{array}{rcl} 3 + 7 & = 10 & 8 + 2 = 10 \\ 2 + 8 & = 10 & 9 + 1 = 10 \\ 5 + 5 & = 10 & 4 + 6 = 10 \\ 1 + 9 & = 10 & 7 + 3 = 10 \\ 6 + 4 & = 10 & 0 + 10 = 10 \end{array}$$

- a.  $3 + \boxed{\quad} = \boxed{\quad}$   
b.  $5 + \boxed{\quad} = \boxed{\quad}$   
c.  $2 + \boxed{\quad} = \boxed{\quad}$   
d.  $6 + \boxed{\quad} = \boxed{\quad}$   
e.  $1 + \boxed{\quad} = \boxed{\quad}$   
f.  $7 + \boxed{\quad} = \boxed{\quad}$   
g.  $8 + \boxed{\quad} = \boxed{\quad}$   
h.  $9 + \boxed{\quad} = \boxed{\quad}$
- i.  $4 + \boxed{\quad} = \boxed{\quad}$

## 2. Fill up the tens.

Example:

$$\begin{array}{rcl} 37 + 3 & = 40 & 25 + 5 = 30 \\ 14 + 6 & = 20 & 68 + 2 = 70 \\ 79 + 1 & = 80 & 43 + 7 = 50 \\ 56 + 4 & = 60 & 84 + 6 = 90 \\ 92 + 8 & = 100 & 36 + 4 = 40 \end{array}$$

- a.  $32 + \boxed{\quad} = \boxed{\quad}$   
b.  $46 + \boxed{\quad} = \boxed{\quad}$   
c.  $54 + \boxed{\quad} = \boxed{\quad}$   
d.  $72 + \boxed{\quad} = \boxed{\quad}$   
e.  $78 + \boxed{\quad} = \boxed{\quad}$   
f.  $68 + \boxed{\quad} = \boxed{\quad}$   
g.  $15 + \boxed{\quad} = \boxed{\quad}$   
h.  $94 + \boxed{\quad} = \boxed{\quad}$   
i.  $83 + \boxed{\quad} = \boxed{\quad}$

Term 2

Are there more combinations that will add up to ten?

Example:  
Calculate  $2486 + 48$

$$\begin{aligned} 2486 + 48 &= (2486 + 14) - 14 + 48 \\ &= 2500 + (48 - 14) \\ &= 2500 + 34 \\ &= 2534 \end{aligned}$$

- a.  $3533 + 95 = \boxed{\quad}$   
b.  $6537 + 84 = \boxed{\quad}$   
c.  $4833 + 95 = \boxed{\quad}$   
d.  $1789 + 39 = \boxed{\quad}$   
e.  $2786 + 56 = \boxed{\quad}$   
f.  $8976 + 41 = \boxed{\quad}$   
g.  $4324 + 98 = \boxed{\quad}$   
h.  $8159 + 62 = \boxed{\quad}$   
i.  $6847 + 73 = \boxed{\quad}$

Find another five combinations that will add up to 100.

The concert

784 people came to see a concert. There were 68 security guards. How many people were in the stadium?

Date: \_\_\_\_\_

# Subtraction up to 4-digit numbers

**32a**

What is the difference between the numbers?

100	200	300	400	500	600	700	800	900	1 000
208	308	408	508	608	708	808	908	1 008	1 108
1 050	1 150	1 250	1 350	1 450	1 550	1 650	1 750	1 850	1 950
1 350	1 360	1 370	1 380	1 390	1 400	1 410	1 420	1 430	1 440
1 000	1 100	1 200	1 300	1 400	1 500	1 600	1 700	1 800	1 900

1. What number comes next?

a. 1 350, 1 300, 1 250,  b. 1 800, 1 700, 1 600,

c. 1 060, 1 050, 1 040,  d. 990, 890, 790,

2. Complete the table:

Number	Subtract 10	Subtract 100	Subtract 1 000
1 847			
1 680			
1 020			
1 006			
1 955			



Examples:

Example 1:  
 $1 598 - 356$   
 $= (1 000) + (500 - 300) + (90 - 50) + (8 - 6)$   
 $= 1 000 + 200 + 40 + 2$   
 $= 1 242$

Continue on an extra sheet of paper.

**continued**

Date:

## 32b

# Subtraction up to 4-digit numbers

Continued

$$\text{e. } 1\ 743 - 1\ 399$$

Continue on an extra sheet of paper.

#### 4. Solve the following word problems.

- a. There are 785 apples at the fruit shop. They sell 83 apples. How many apples are left?

Continue on an extra sheet of paper.

- b. Thabo had 2 000 litres of milk. He sold 256 litres of milk in the first week and 193 litres in the second week. How many litres did he sell altogether?

Continue on an extra sheet of paper.

Continue on an extra sheet of paper.

Continue on an extra sheet of paper.

#### What is the size of your number?

##### What to do:

- Use the 100s dice made before.
- Piece of paper.



1 940  
1 930  
1 915  
1 936  
1 999

- Roll the 100s dice.
- Subtract the number the dice landed on, from the first number on the blue card. Write your subtraction sum on a piece of paper.
- Do the same with the 2nd to the 5th number.

Continue on an extra sheet of paper.

# More subtraction up to 4-digit numbers

33



If you want to subtract the units from the units, the tens from the tens, the hundreds from the hundreds and the thousands from the thousands ,what will you do?

$$\begin{array}{r}
 7\ 000 \\
 - 4\ 000 \\
 \hline
 3\ 000
 \end{array}
 \quad
 \begin{array}{r}
 8\ 000 \\
 - 2\ 000 \\
 \hline
 6\ 000
 \end{array}
 \quad
 \begin{array}{r}
 700 \\
 - 200 \\
 \hline
 500
 \end{array}$$

## 1. Subtract the following:

$$\begin{array}{l}
 \text{a. } 60 - 20 = \boxed{\phantom{00}} \quad \text{b. } 5 - 2 = \boxed{\phantom{0}} \quad \text{c. } 800 - 400 = \boxed{\phantom{000}} \\
 \text{d. } 600 - 400 = \boxed{\phantom{000}} \quad \text{e. } 9\ 000 - 3\ 000 = \boxed{\phantom{0000}} \quad \text{f. } 700 - 100 = \boxed{\phantom{00}} \\
 \text{g. } 7 - 2 = \boxed{\phantom{0}} \quad \text{h. } 70 - 30 = \boxed{\phantom{00}} \quad \text{i. } 5\ 000 - 1\ 000 = \boxed{\phantom{0000}}
 \end{array}$$

## 2. Subtract the following:

### Example 1

**320 – 180**

$$\begin{aligned}
 &= (300 + 20) - 100 - 80 \\
 &= 200 + 20 - 80 \\
 &= 100 + 120 - 80 \\
 &= 100 + 40 \\
 &= 140
 \end{aligned}$$

a.  $620 - 210 =$

b.  $640 - 330 =$

c.  $720 - 420 =$

c.  $5\ 387 - 4\ 263 =$

b.  $7\ 576 - 5\ 125 =$

a.  $3\ 857 - 2\ 436 =$

c.  $5\ 387 - 4\ 263 =$

b.  $7\ 576 - 5\ 125 =$

a.  $3\ 857 - 2\ 436 =$

c.  $5\ 387 - 4\ 263 =$

b.  $7\ 576 - 5\ 125 =$

a.  $3\ 857 - 2\ 436 =$

c.  $5\ 387 - 4\ 263 =$

b.  $7\ 576 - 5\ 125 =$

a.  $3\ 857 - 2\ 436 =$

c.  $5\ 387 - 4\ 263 =$

b.  $7\ 576 - 5\ 125 =$

a.  $3\ 857 - 2\ 436 =$

c.  $5\ 387 - 4\ 263 =$

b.  $7\ 576 - 5\ 125 =$

a.  $3\ 857 - 2\ 436 =$

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b.  $7\ 576 - 5\ 125 =$

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c.  $5\ 387 - 4\ 263 =$

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b.  $7\ 576 - 5\ 125 =$

a.  $3\ 857 - 2\ 436 =$

c.  $5\ 387 - 4\ 263 =$

b.  $7\ 576 - 5\ 125 =$

a.  $3\ 857 - 2\ 436 =$

c.  $5\ 387 - 4\ 263 =$

b.  $7\ 576 - 5\ 125 =$

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a.  $3\ 857 - 2\ 436 =$

c.  $5\ 387 - 4\ 263 =$

b.  $7\ 576 - 5\ 125 =$

a.  $3\ 857 - 2\ 436 =$

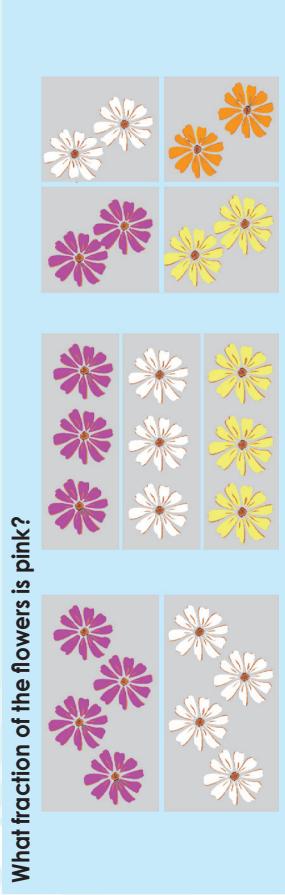
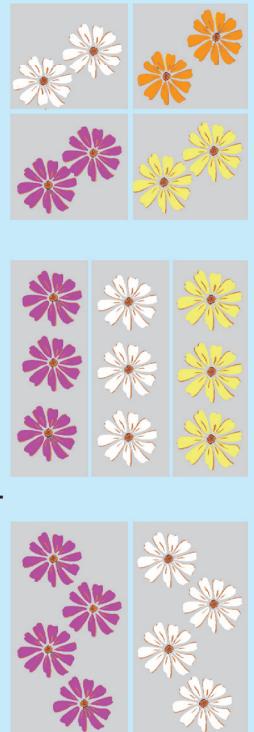
c.  $5\ 387 - 4\ 263 =$

b. <math

# Compare and order common fractions

34

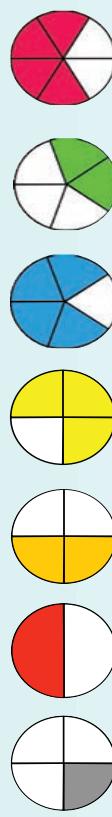
What fraction of the flowers is pink?



1. Complete the tables below.

Fraction circle	What fraction is red?	What fraction is green?	
a.	$\frac{1}{2}$	$\frac{1}{2}$	e.
b.	$\frac{3}{5}$	$\frac{2}{5}$	f.
c.	$\frac{2}{5}$	$\frac{3}{5}$	g.
d.	$\frac{5}{8}$	$\frac{3}{8}$	h.

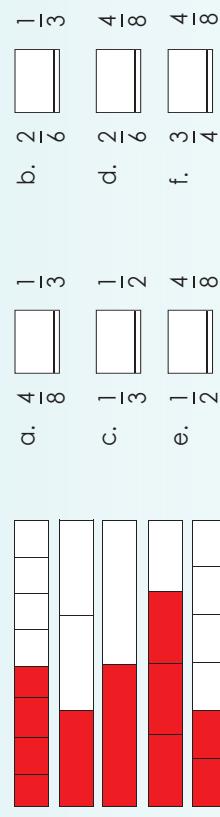
2. Use the fraction circles to say if it is bigger than, smaller than or equal.



Fill in <, > or =

- a.  $\frac{4}{5} \blacksquare \frac{3}{4}$
- b.  $\frac{2}{5} \blacksquare \frac{1}{4}$
- c.  $\frac{1}{2} \blacksquare \frac{3}{4}$
- d.  $\frac{2}{4} \blacksquare \frac{1}{2}$
- e.  $\frac{4}{5} \blacksquare \frac{4}{6}$
- f.  $\frac{2}{4} \blacksquare \frac{4}{6}$

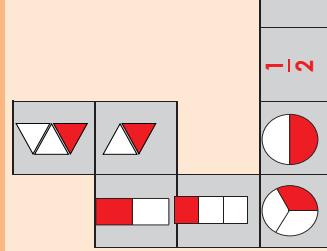
3. Use the fraction strips to answer the questions.



4. Which fraction comes next if I count forwards?

- a.  $\frac{1}{4}, \frac{2}{4}, \frac{3}{4}, \frac{4}{4}$
- b.  $\frac{1}{6}, \frac{2}{6}, \frac{3}{6}$
- c.  $\frac{2}{5}, \frac{3}{5}, \frac{4}{5}$
- d.  $\frac{4}{8}, \frac{5}{8}, \frac{6}{8}$

## Fraction Dominoes



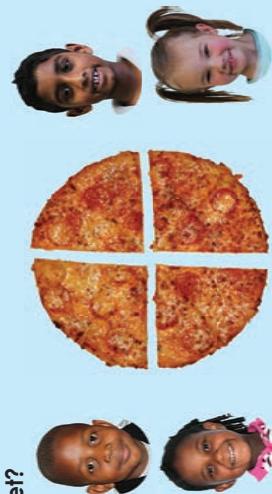
- Use Cut-out 6.
- After shuffling the dominoes, each player draws tiles to make up their hand. The number of tiles drawn depends on the number of players.
- The player with the largest fraction starts. Play proceeds to the left (clockwise). Each player adds a domino to an open end of the layout, if possible.
- A player who cannot make a move must pass. The game ends when one player uses the last domino in his or her hand, or when no more plays can be made. If all players still have tiles in their hand, but no more plays can be made, then the game is said to be "blocked".

## Grouping and Sharing

35



**Look at the picture below. Each child got 1 slice of pizza. What fraction of a pizza did each child get?**



**1. Look at the building and answer the questions.**

a. What fraction of the red window is:

Washed?	<input type="text"/>
Still dirty?	<input type="text"/>

b. What fraction of the orange window is:

Washed?	<input type="text"/>
Still dirty?	<input type="text"/>

c. What fraction of the green window is:

Washed?	<input type="text"/>
Still dirty?	<input type="text"/>

d. What fraction of the purple window is:

Washed?	<input type="text"/>
Still dirty?	<input type="text"/>

e. What fraction of the blue window is:

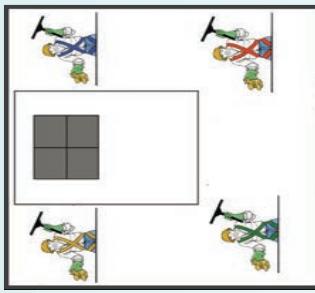
Washed?	<input type="text"/>
Still dirty?	<input type="text"/>

f. What fraction of the door is:

Washed?	<input type="text"/>
Still dirty?	<input type="text"/>

**2. Look at the pictures. All jobs are shared **equally**.**

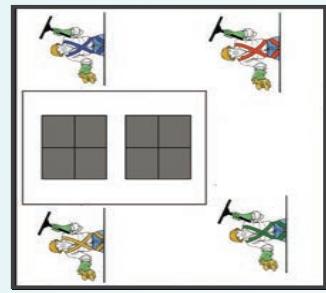
a. How many window panes will each person wash?



b. What fraction of the window is this?

c. How many window panes will each person wash?

d. What fraction of the windows is this?



e. How much of the door will each person wash?

f. What fraction of the door is this?

### Fraction Dominoes

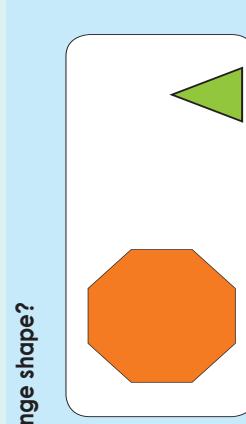
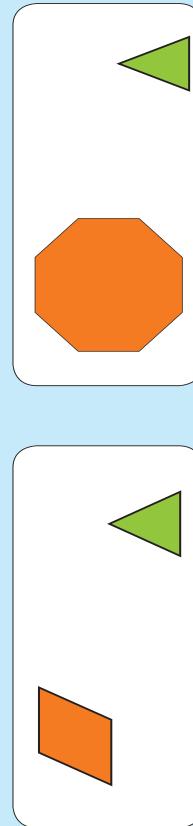
Play fraction dominoes.

Sign:	Date:
-------	-------

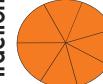
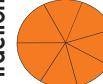
# Fractions: halves to twelfths

36

How many triangles can you fit onto the orange shape?

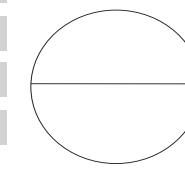
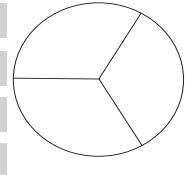
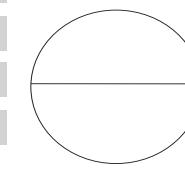
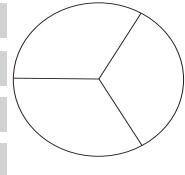
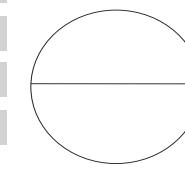
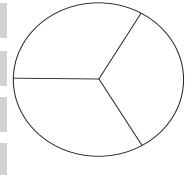
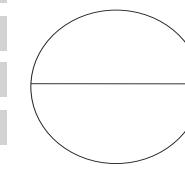
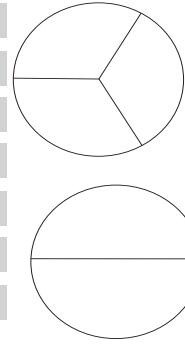


1. Match the fraction strip with the fraction circle on the left.

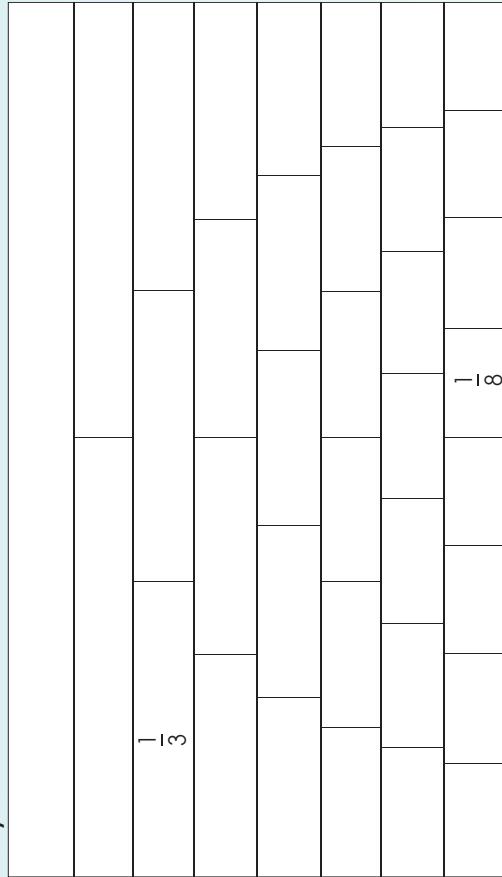


2. Find the fraction and colour in the following.

$\frac{3}{4}$	$\frac{4}{6}$	$\frac{2}{3}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{6}{7}$	$\frac{2}{5}$
---------------	---------------	---------------	---------------	---------------	---------------	---------------



3. Write the fractions on the fraction diagram. We have done two examples for you.



4. Fill in <, >, or =. Use the fraction strips above to help you.

a.  $\frac{1}{2} \square \frac{1}{4}$    b.  $\frac{1}{3} \square \frac{1}{5}$    c.  $\frac{1}{6} \square \frac{1}{8}$    d.  $\frac{1}{8} \square \frac{1}{7}$

e.  $\frac{1}{2} \square \frac{2}{4}$    f.  $\frac{2}{3} \square \frac{5}{6}$    g.  $\frac{3}{5} \square \frac{3}{8}$    h.  $\frac{2}{7} \square \frac{1}{8}$

i.  $\frac{4}{6} \square \frac{2}{3}$    j.  $\frac{5}{8} \square \frac{2}{4}$    k.  $\frac{3}{5} \square \frac{1}{6}$    l.  $\frac{1}{2} \square \frac{7}{8}$

m.  $\frac{3}{8} \square \frac{2}{3}$    n.  $\frac{4}{7} \square \frac{4}{5}$    o.  $\frac{4}{8} \square \frac{1}{2}$    p.  $\frac{1}{3} \square \frac{2}{6}$

## Fractions dice

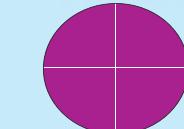
- Use Cut-out 4.
- Throw the fraction dice.
- Then take a fraction strip that matches the fraction on the face of the dice. If the face is  $\frac{1}{4}$ , take a quarter strip.
- If you are correct keep the fraction strip.
- At the end count your fraction strips.
- The winner is the person with the most fraction strips.

## Fractions and division

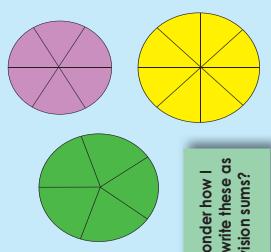
37

Quick recall. How fast can you answer the following?

This circle is divided into 4 equal pieces.  
I can also say  
1 divided by 4.



$$1 \div 4$$



I wonder how I can write these as division sums?

2. Complete the table.

Fraction circle	Fraction	Division	Division sum in words
	halves	$1 \div 2 = \frac{1}{2}$	One circle divided by two equals two halves.

Fraction hunt ...

Find in magazines or draw fractions for:

$$2 \div 8$$

$$3 \div 6$$

$$2 \div 12$$

Fraction strip	Fraction pieces. Make your own drawing.	Write a division sum.	Write a division sum.
		$1 \div 2 =$	

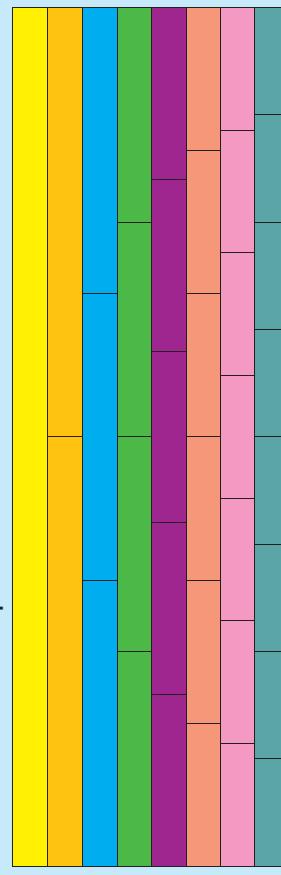
# Equivalent and Comparing Fractions

38

## Term 2

2. Look at the pictures and answer the questions.

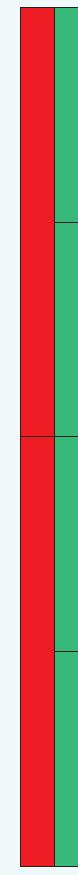
Write a fraction on each part.



1. Use the fraction strips. Answer the questions below.



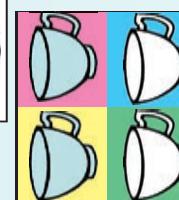
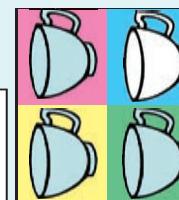
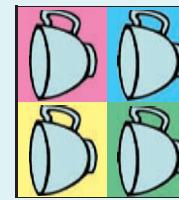
- What fraction is smaller than  $\frac{1}{2}$ ?
- What fraction is bigger than  $\frac{1}{2}$ ?
- What fractions are smaller than  $\frac{2}{3}$ ?
- What fraction is equal to  $\frac{1}{2}$ ?



- What fraction is smaller than  $\frac{1}{2}$ ?
- What fraction is bigger than  $\frac{1}{2}$ ?
- What fractions are smaller than  $\frac{2}{3}$ ?
- What fraction is equal to  $\frac{1}{2}$ ?
- What fractions are smaller than  $\frac{2}{3}$ ?
- What fraction is equal to  $\frac{1}{3}$ ?



= 250 ml



a. Four cups =  ml.

b. Four cups =  litre.

c. One cup is  of a litre.

d. Two cups are  of a litre.

e. Three cups are  of a litre.

f. Four cups are  of a litre.

3. Fill in <, > or =

a. 3 cups   $\frac{1}{2}$  of a litre.

b.  $\frac{1}{4}$  of a litre  4 cups.

c. 4 cups  1 litre.

d. 1 cup   $\frac{1}{4}$  of a litre.

e. 2 cups  500 ml

f. 2 cups   $\frac{1}{4}$  of a litre.

### Fraction Dominoes

Play fraction dominoes.

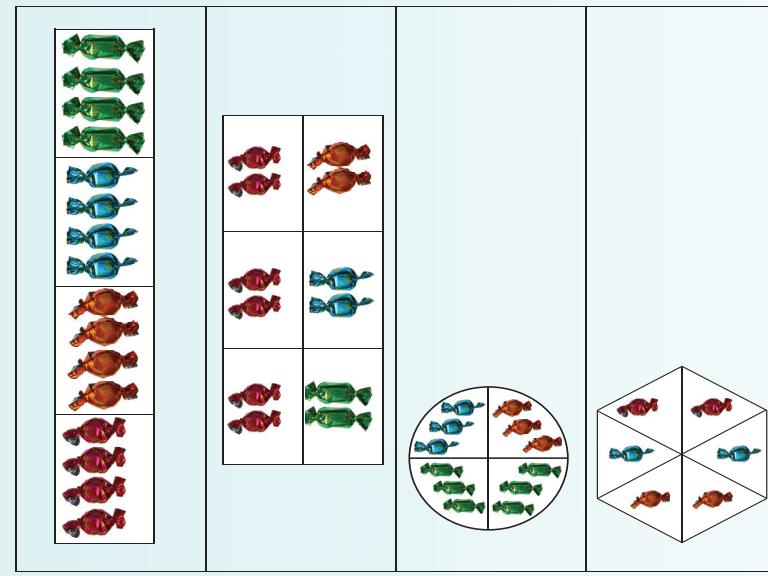
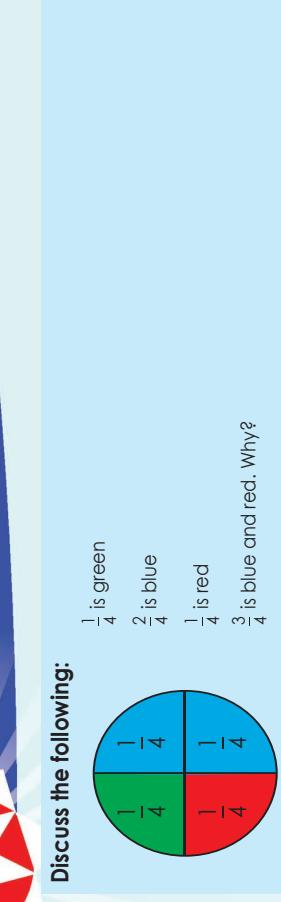
Sign:

Date:

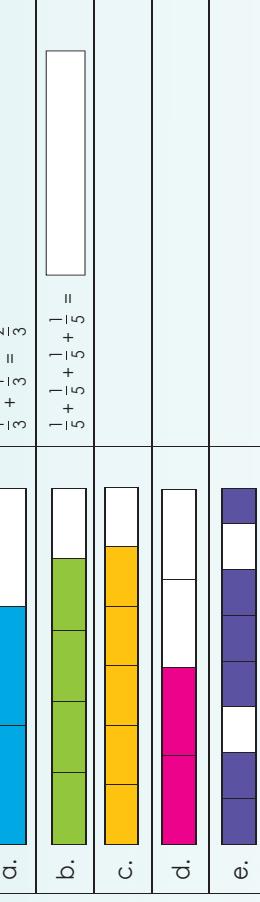
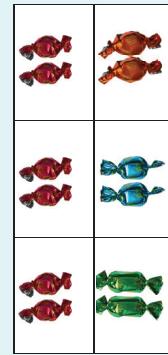
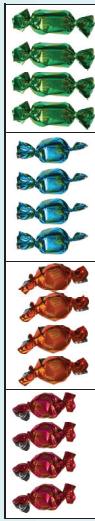
# Common fractions

39

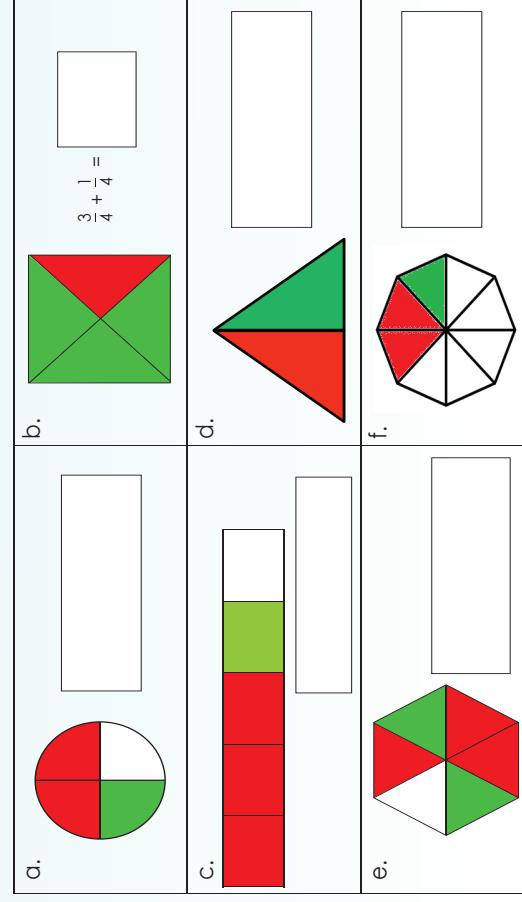
3. What fraction of the sweets are orange and blue?



$$\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$$



**2. Add the red and green parts of the diagram.**



Term 2

**b.**  $\frac{3}{5} + \frac{1}{5} = \boxed{\phantom{00}}$

**c.**  $\frac{2}{4} + \frac{4}{6} = \boxed{\phantom{00}}$

**d.**  $\frac{2}{4} + \boxed{\phantom{00}} = \frac{3}{4}$

**e.**  $\frac{4}{8} + \boxed{\phantom{00}} = \frac{6}{8}$

**f.**  $\frac{1}{12} + \boxed{\phantom{00}} = \frac{11}{12}$

Eating chocolate

Susan eats two eights of a chocolate bar. How much is left over? Show your answer with a drawing.

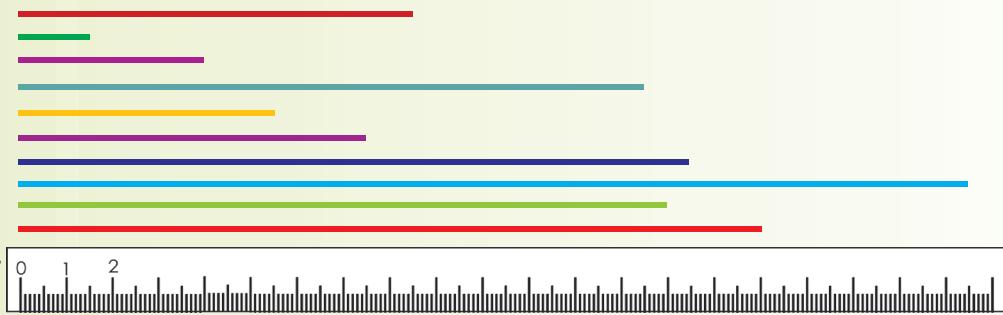
# Length

4.0

8

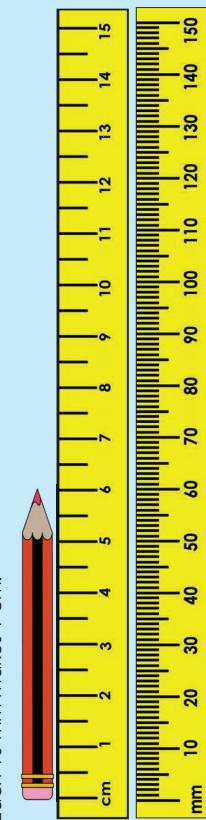
3. Complete the numbers on the ruler, measure the lines and complete the table.

	Answer in mm	Answer in cm
	Red	
	Green	
	Blue	
	Dark Blue	
	Yellow	
	Teal	
	Purple	
	Green	
	Red	

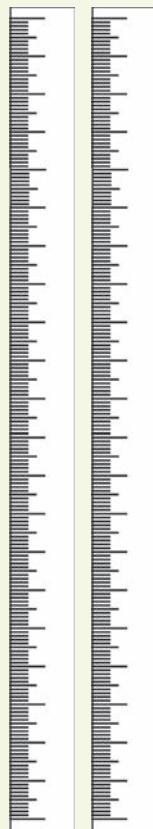


## Length – using your ruler.

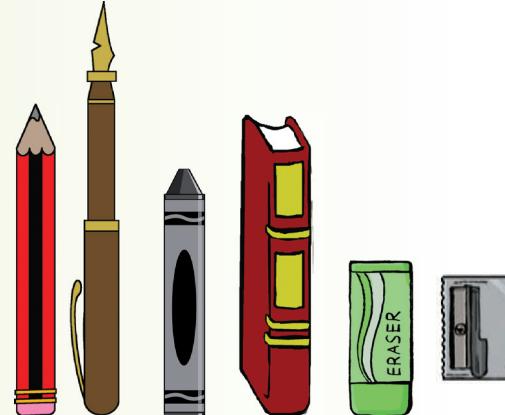
- The pencil starts at zero and measures 6 cm or 60 mm long.
- On the first ruler each cm is marked but there are unmarked divisions in between. What are they?
- On the second ruler each mm is marked.
- Each 10 mm makes 1 cm.



1. Label the first ruler in cm and the second one in mm.



2. Measure each object and give your answer in cm and mm. Order the objects from shortest to longest.



Term 2

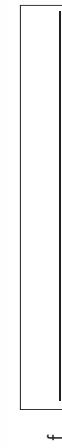
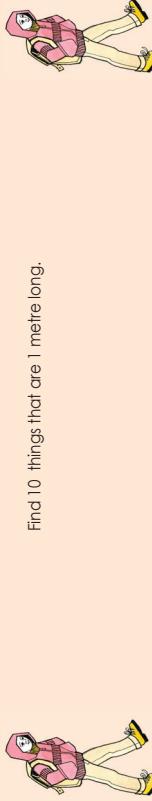
## 4. Answer the following:

Write your answers in mm and cm.

- a. Which line is the longest? \_\_\_\_\_
- b. Which line is the shortest? \_\_\_\_\_

One metre outing ...

Find 10 things that are 1 metre long.



# Estimate, measure and compare length

41



## 4. What are the abbreviations for:

- a. millimetre
- b. centimetre
- c. metre
- d. kilometre

Match the measuring instrument with the measuring unit



## 1. Estimate, measure and compare in millimetres.

	Estimate	Measure	Difference between estimation and measurement
a. Length of book			
b. Length of desk			
c. Width of desk			
d. Height of suitcase			
e. Length of suitcase			

	Estimate	Measure	Difference between estimation and measurement
a. Length of class			
b. Width of class			
c. Length of teacher's desk			
d. Height of teacher's desk			
e. Length of any outside area			

## 2. Estimate, measure and compare in metres.

	Estimate	Measure	Difference between estimation and measurement
a. The height and width of the door.			
b. The length and width of any outside area.			
c. The length and width of the classroom.			
d. The length and width of any outside area.			

## 3. If the object is shorter than 20 cm but longer than 10 cm, what could the object be?

### Length and width

What is the difference between the length and the width of any room in your house?

## Length Conversions

42

**Read the statements. Say what you would measure with: centimetres, metres or kilometres.**

**Length of a staple**

**Half length of a bed**

**The height of a five year old**

**Waist height of an adult**

**It will take 12 minutes to walk.**

**Five steps up a staircase**

**The thickness of a notebook**

**1. Convert the following to the other two measurement units.**

- a. 10 mm =
- b. 100 cm =
- c. 1 000 mm =
- d. 1 000 m =

**2. Write the following in cm and mm, and then as cm.**

**Example:**

$$35 \text{ mm} = 3 \text{ cm and } 5 \text{ mm or } 3\frac{1}{2} \text{ cm}$$

- a. 75 mm =
- b. 65 mm =
- c. 35 mm =
- d. 15 mm =
- e. 5 m =
- f. 85 mm =

**3. Write the following in mm.**

**Example:**

$$3\frac{1}{2} \text{ cm} = 35 \text{ mm}$$

- a. 4 cm and 3 mm
- b.  $6\frac{1}{2}$  cm
- c. 7 cm and 8 mm
- d.  $9\frac{1}{2}$  cm
- e. 5 cm and 9 mm
- f.  $18\frac{1}{2}$  cm

**4. Write the following in m and cm.**

**Example:**

$$26 \text{ cm} = 5 \text{ m and } 26 \text{ cm}$$

- a. 197 cm
- b. 521 cm
- c. 362 cm
- d. 418 cm
- e. 235 cm
- f. 756 cm

### 5. Write the following as cm.

- a. 1 m 42 cm
- b. 5 m 24 cm
- c. 4 m 69 cm
- d. 6 m 31 cm
- e. 2 m 13 cm
- f. 7 m 88 cm
- g. 3 m 55 cm
- h. 9 m 76 cm
- i. 8 m 97 cm

### 6. Write the following as km.

- a. 3 500 m
- b. 7 500 m
- c. 8 900 m
- 3 km 500 m
- d. 3 200 m
- e. 6 100 m
- f. 6 500 m
- g. 8 500 m
- h. 4 200 m
- i. 3 800 m

### 7. Write the following as m.

- a.  $4\frac{1}{2}$  km
- b.  $9\frac{1}{2}$  km
- c. 2 km 400 m
- 4 500 m
- d. 7 km 800 m
- e.  $5\frac{1}{2}$  km
- f. 6 km 300 m
- g.  $7\frac{1}{2}$  km
- h. 9 km 200 m
- i.  $1\frac{1}{2}$  km

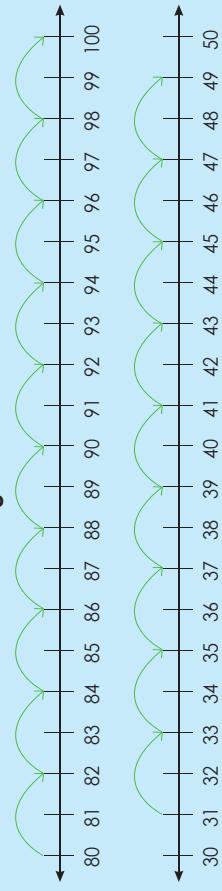
### Distances

- a. I travelled  $4\frac{1}{2}$  km. My friend travelled 4 700 m. Who travelled the furthest?
- b. I bought 5 700 mm of string and then 3 100 mm more. How much string did I buy? Write down your answer in mm and cm and then in m.
- c. I bought 9 m of ribbon. I used  $4\frac{1}{2}$  m. How much ribbon do I have left? Write your answer in m and cm.
- d. My father's desk is 2 200 mm long and mine measures 1 900 mm. How much longer is my father's desk? Write down your answer in mm and cm.
- e. I bought 20 m of wool. I used  $11\frac{1}{2}$  m. How much wool do I have left? Write your answer in m and cm.

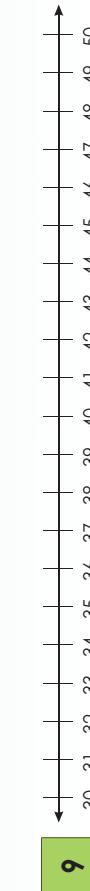
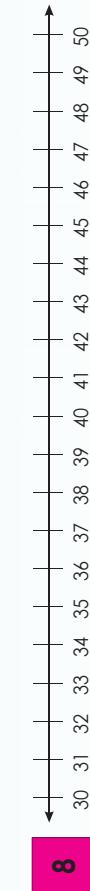
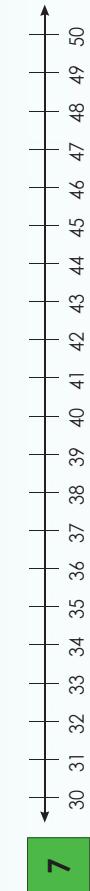
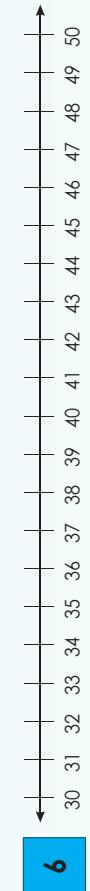
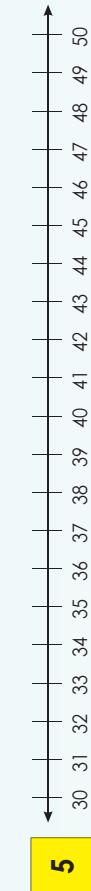
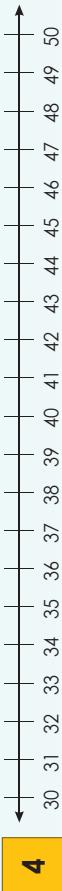
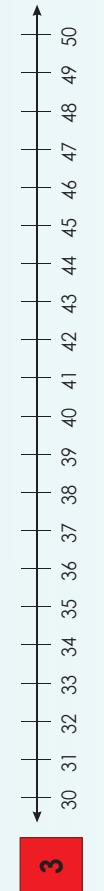
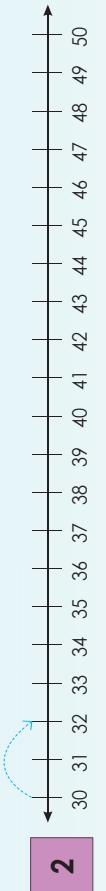
## Multiples and rate

43

What are these number lines showing?

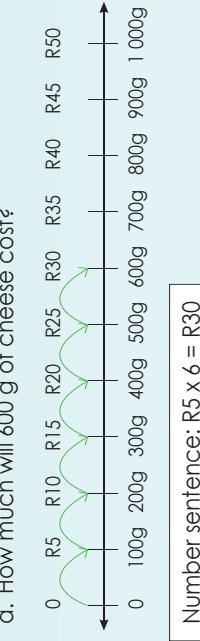


1. Show the multiples on the number lines.



2. Solve the following by showing it on a number line.

a. How much will 600 g of cheese cost?



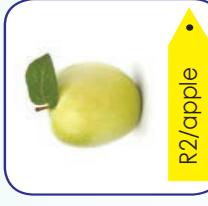
b. How much will 900 g viennas cost?



c. How much will 1 000 g chicken cost?



d. How much will 12 apples cost?



Sugar

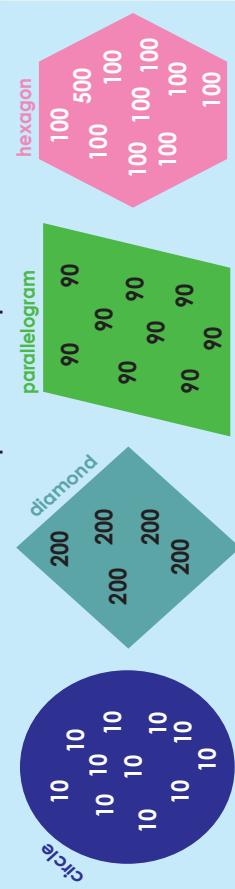
The mass of 10 bags of sugar is 300 kg. What is the mass of 1 bag of sugar?



# Multiplication: 2-digits by 2-digits

44a

Give the total of the numbers in each shape. Use multiplication.



1. Complete the table below.

Number	$\times 10$	$\times 20$	$\times 30$	$\times 40$	$\times 50$
10					
20					
30					
40					
50					

2. Are these multiples of (extend the pattern):

- a. 10? 50, 60, 70, 80,
- b. 20? 260, 280, 300, 320,
- c. 40? 160, 200, 240, 280,
- d. 100? 200, 300, 400, 500,
- e. 90? 180, 270, 360, 450,

3. Use the method below to solve the multiplication sums on this and the next page.

Example:

$$\begin{aligned}
 11 \times 12 &= (10 + 1) \times (10 + 2) \\
 &= (10 \times 10) + (1 \times 10) + (10 \times 2) + (1 \times 2) \\
 &= 100 + 10 + 20 + 2 \\
 &= 100 + 30 + 2 \\
 &= 132
 \end{aligned}$$

a.  $12 \times 13 =$

Continue on an extra sheet of paper.

b.  $10 \times 21 =$

Continue on an extra sheet of paper.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Continue on an extra sheet of paper..

## Multiplication: 2-digits by 2-digits

continued

**44b**

$$c. 22 \times 14 =$$

### 4. Solve the problem.

Each box has 42 apples. How many apples are there altogether in 12 boxes?

Show all calculations.

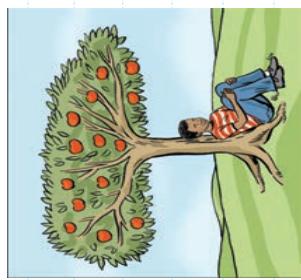

Continue on an extra sheet of paper.

$$d. 23 \times 17 =$$


Continue on an extra sheet of paper.

$$e. 19 \times 22 =$$


Continue on an extra sheet of paper.

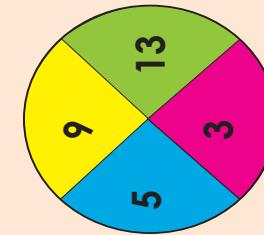



Continue on an extra sheet of paper.

### How fast are you?

#### What to do:

- The aim is to see how fast you can fill in the answers in the white rectangles.
- Multiply each colour number on the circle by the same colour rectangle's to get your answer.



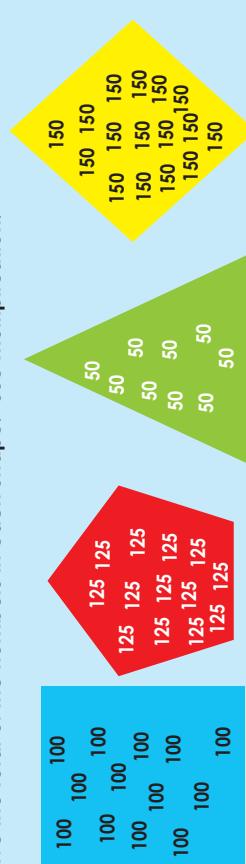
30	80
10	40
50	40
200	90
90	30
50	50
20	10
30	9
60	20
80	60

# More multiplication: 2-digits by 2-digits

**45a**

3. Use the method below to solve the sums.

Give the total of the numbers in each shape. Use multiplication.



1. Complete the table below.

Number	$\times 10$	$\times 20$	$\times 30$	$\times 40$	$\times 50$	$\times 60$	$\times 70$	$\times 80$	$\times 90$
8									
10									
12									
15									
20									

2. These are multiples of (extend the pattern):

a. $20:$ 60, 80, 100, 120, <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	b. $28 \times 62 =$ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
c. $50:$ 150, 200, 250, 300, <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	d. $100:$ 500, 600, 700, 800, <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
e. $200:$ 200, 400, 600, 800, <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	f. $250:$ 0, 250, 500, 750, <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

Continue on an extra sheet of paper.

## More multiplication: 2-digits by 2-digits

continued

**45b**

C.  $35 \times 54 =$

Continue on an extra sheet of paper.

d.  $33 \times 39 =$

4. There are 38 children in our class. Each child needs to pay R45 for their stationery. How much money must your teacher collect?

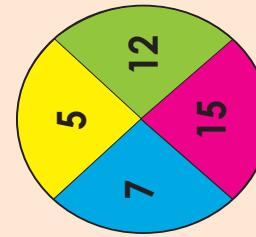
Continue on an extra sheet of paper.

How fast are you...

e.  $28 \times 71 =$

20	50
30	40
60	10
10	70
90	80
50	40
10	50
80	50

- What to do:**
- The aim is to see how fast you can fill in the answers in the white rectangles.
  - Multiply each number on the circle by the same colour rectangle to get your answer.



Continue on an extra sheet of paper.

# Multiplication and approximation

4.6

8

127

Date: \_\_\_\_\_

Sign: \_\_\_\_\_

Term 2

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

47 × 45  
≈ 50 × 45 (by approximating one number)  
≈ 50 × (40 + 5)  
= (50 × 40) + (50 × 5)  
= 2 000 + 250  
≈ 2 250

47 × 45  
= (40 + 7) × (40 + 5)  
= (40 × 40) + (40 × 5) + (7 × 40) + (7 × 5)  
= 1 600 + 200 + 280 + 35  
= 1 000 + 600 + 200 + 200 + 80 + 30 + 5  
= 1 000 + 1 000 + 110 + 5  
= 2 000 + 115  
= 2 115

**Example 2:**

a. 28 × 22 =  

b. 23 × 57 =  

c. 35 × 23 =  

d. 48 × 32 =

Continue on an extra sheet of paper.

**Revise rounding off to the nearest 10.** Look at the number lines and describe them.

Round 6 off to the nearest ten.

What will 1, 2, 3 and 4 be when we round it off to the nearest 10?

It will be zero.

What will 5, 6, 7, 8 and 9 be when we round it off to the nearest 10?

It will be ten.

It will be zero.

What will 5, 6, 7, 8 and 9 be when we round it off to the nearest 10?

It will be ten.

It will be zero.

What will 5, 6, 7, 8 and 9 be when we round it off to the nearest 10?

It will be ten.

It will be zero.

What will 5, 6, 7, 8 and 9 be when we round it off to the nearest 10?

It will be ten.

**1. Round the following off to the nearest ten.**

a. 13  

b. 42  

c. 35  

d. 54  

e. 21  

f. 79  

g. 68  

h. 97  

i. 86

**2. Calculate these multiplication sums by approximating one or both of the numbers. Then multiply the numbers without approximation and compare the answers.**

**Example 1:**

47 × 45  
≈ 50 × 40 (by approximating the numbers)  
≈ 2 000

47 × 45  
= (40 + 7) × (40 + 5)  
= (40 × 40) + (40 × 5) + (7 × 40) + (7 × 5)  
= 1 600 + 200 + 280 + 35  
= 1 000 + 600 + 200 + 200 + 80 + 30 + 5  
= 1 000 + 1 000 + 110 + 5  
= 2 000 + 115  
= 2 115

**What is the approximate cost?**

What is the approximate cost if my company wants to buy 52 pairs of shoes at R48 per pair?

# Multiplication: 2-digit numbers by 2-digit numbers

47

Look at these examples. What do you notice?

**Example 1:**

$$\begin{aligned} 6 &= 2 \times 3 \\ 12 &= 2 \times 2 \times 3 \\ 36 &= 2 \times 2 \times 3 \times 3 \\ 18 &= 2 \times 3 \times 3 \\ 72 &= 2 \times 2 \times 2 \times 3 \times 3 \end{aligned}$$

**Example 2:**

$$\begin{aligned} 45 &= 3 \times 3 \times 5 \\ 30 &= 2 \times 3 \times 5 \\ 10 &= 2 \times 5 \\ 60 &= 2 \times 2 \times 3 \times 5 \\ 50 &= 2 \times 5 \times 5 \end{aligned}$$

1. Break down the number by multiplying 2s and 3s.

- a. 6      b. 72      c. 108




2. Break down the number by multiplying 2s or 3s or 5s or a combination.

- a. 30      b. 60      c. 20




3. Break down the multiplier (the second number) by multiplying 2s and 3s.

**Example:**

$$\begin{aligned} 47 \times 12 &= 47 \times 2 \times 6 \\ &= 47 \times 2 \times 2 \times 3 \\ &= 94 \times 2 \times 3 \\ &= 188 \times 3 \\ &= (100 + 80 + 8) \times 3 \\ &= 300 + 240 + 24 \\ &= 564 \end{aligned}$$

- a. 29 × 30

- b. 44 × 4

- c. 56 × 20




**An apple a day!**

A teacher paid R2 per apple. She bought 45 apples per class. She had to buy for all 3 classes in the grade. How much did she pay?

- a.  $24 \times 6$

- b.  $32 \times 72$

- c.  $27 \times 36$




4. Break down the multiplier by multiplying 2s, 3s and 5s.

**Example:**

$$\begin{aligned} 53 \times 45 &= 53 \times 9 \times 5 \\ &= 53 \times 3 \times 3 \times 5 \\ &= 159 \times 3 \times 5 \\ &= 477 \times 5 \\ &= (400 + 70 + 7) \times 5 \\ &= 2000 + 350 + 35 \\ &= 2385 \end{aligned}$$

I broke down the second number into 9 and 5

I can break it down even further into 3, 3 and 5





Date: \_\_\_\_\_

Sign: \_\_\_\_\_

129

128

129

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

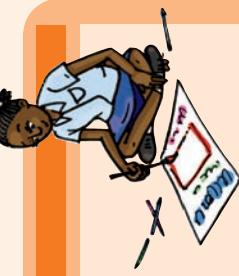
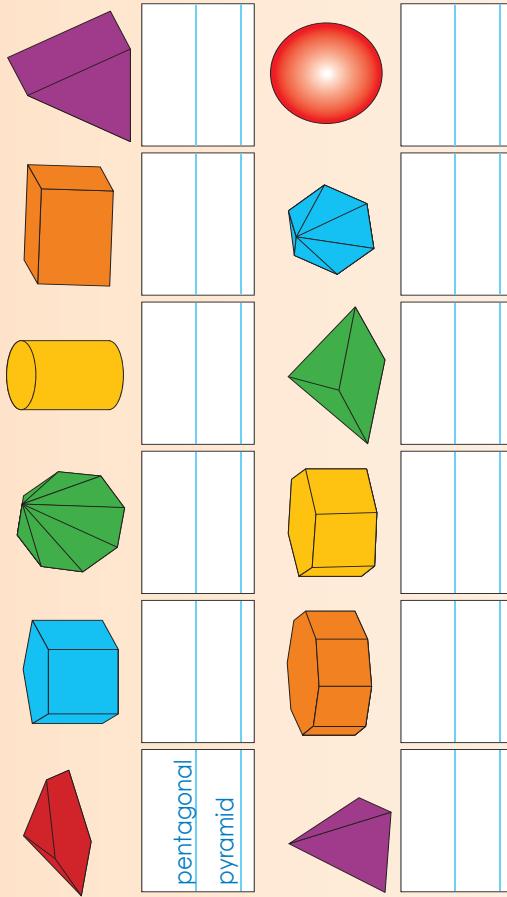
# 3-D Objects

48

Look at the picture. Discuss it. Use words such as prisms, pyramids, spheres and cylinders.



2. Which of these are prisms? Write the names. Which of these are pyramids? Write the names. Which one is the cylinder and sphere?



## Number madness

Shapes in a poster ...

Three pictures of products which are packaged in rectangular prisms.

Which kind of prism is most appropriate for packaging books in? Why?

Three everyday objects which are cylinders.

\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

1. Write the number of objects you see in the picture next to the word.

**Prisms**

e. Triangular pyramid

f. Square pyramid

g. Pentagonal pyramid

h. Hexagonal pyramid

**Pyramids**

a. Triangular prism

b. Rectangular prism

c. Pentagonal prism

d. Hexagonal prism

**Cylinders**

e. Triangular prism

f. Square pyramid

g. Pentagonal pyramid

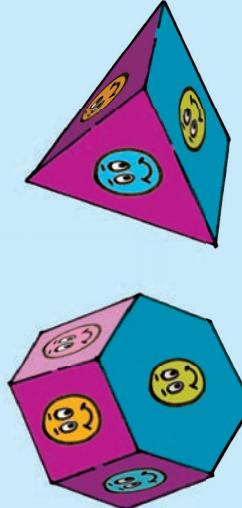
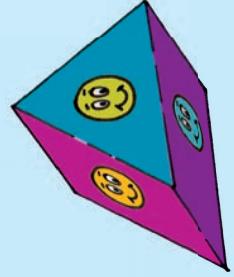
h. Hexagonal pyramid

**Spheres**

## Faces

49

Do we see all the faces on the objects?

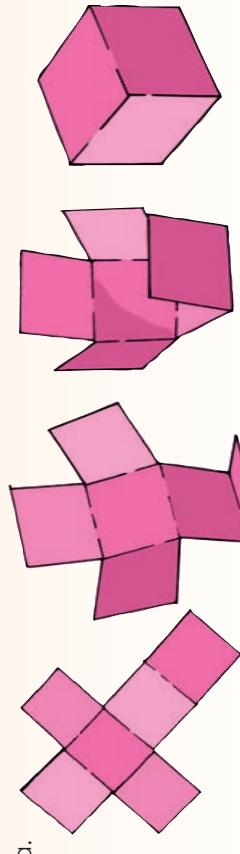


1. Use Cut-out 7. Fold the nets (patterns) to make prisms and pyramids. Paste a different coloured head on each face (flat side) of the prism or pyramid.

2. Name the shapes of the faces (sides) in these objects.

Prism	Shapes	Pyramids	Shapes
a. Triangular prism	Triangle	e. Triangular pyramid	
b. Cube		f. Square pyramid	
c. Pentagonal prism		g. Pentagonal pyramid	
d. Hexagonal prism		h. Hexagonal pyramid	

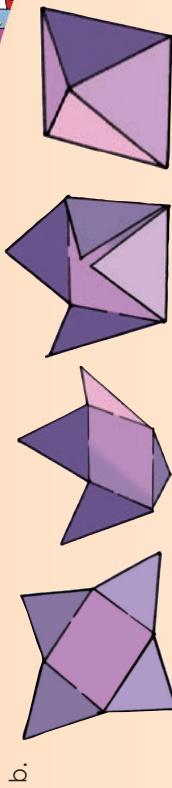
3. Name the object. Name the shapes of the faces.



Name of object:

Shape of faces:

Date:



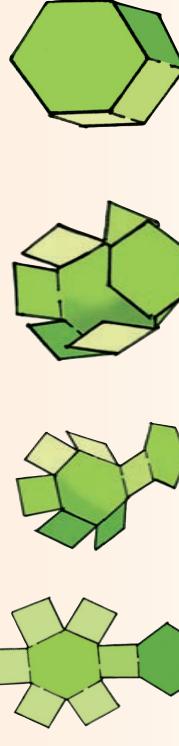
Name of object:

Shapes of faces:



Name of object:

Shapes of faces:

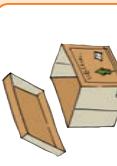


Name of object:

Shapes of faces:



Everyday objects



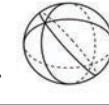
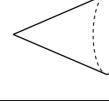
Name the shapes  
of the faces of  
each object.

# Describing and making models of 3-D objects

50

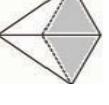
## 3. Trace the nets to make the 3-D objects. Describe each object.

Look at these examples. What do you notice?

<b>Spheres</b>	<b>Cylinders</b>	<b>Cones</b>	<b>Square-based pyramids</b>
			

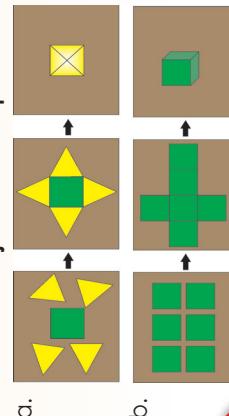
curved surfaces  
flat and curved surfaces  
flat and curved surfaces  
flat surfaces

### 1. Complete the table

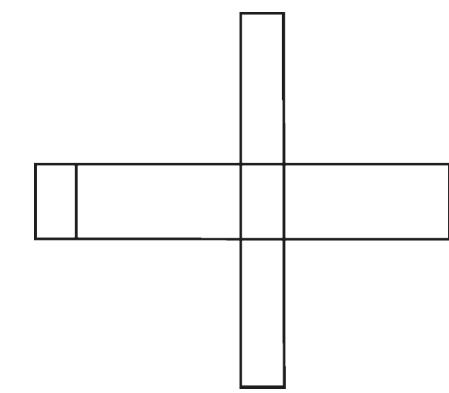
3-D object	Name the 3-D object	Number of faces	Shape of shaded face of the 3-D object
			




### 2. Name the objects these shapes are forming.



### a. Rectangular prism



- Describe the object by using words such as:
- Surfaces (flat and curved)
  - Shape of faces

---

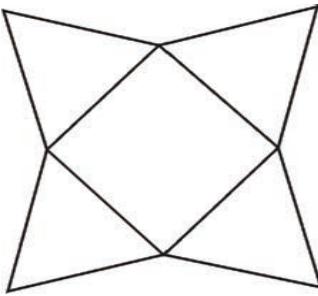
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### b. Square-based pyramid



- Describe the object by using words such as:
- Surfaces (flat and curved)
  - Shape of faces

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### Box work

Redesign your favourite box.  
Choose a box that is a rectangular prism. Unfold it. Copy the pattern (net) and make a similar box.

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# Investigate geometric patterns

51



2. Extend the geometric pattern and complete the table. You may need extra paper for C and D.



- a.



- b.



Pattern	1	2	3	4	5	6	10
Number of blocks							
a.	4	8	12	16	20	24	40
b.	4	8	12	16	20	24	40
c.	4	8	12	16	20	24	40
d.	4	8	12	16	20	24	40

Pattern	1	2	3	4	5	6	10
Number of blocks							
a.	4	8	12	16	20	24	40
b.	4	8	12	16	20	24	40
c.	4	8	12	16	20	24	40
d.	4	8	12	16	20	24	40

## Look and discuss



What will the next pattern be?



Growing patterns of shape

3      6      10

What will the next pattern be?



Growing patterns of numbers

1      4      9

1. Extend the geometric pattern and write it as a number pattern.

a.				16
b.				
c.				
d.				

Pattern	1	2	3	4	5	6	10
Number of blocks							
a.	4	8	12	16	20	24	40
b.	4	8	12	16	20	24	40
c.	4	8	12	16	20	24	40
d.	4	8	12	16	20	24	40

Pattern	1	2	3	4	5	6	10
Number of blocks							
a.	4	8	12	16	20	24	40
b.	4	8	12	16	20	24	40
c.	4	8	12	16	20	24	40
d.	4	8	12	16	20	24	40

## Patterns in a sequence

What is the tenth pattern? Use a table to show your answer.



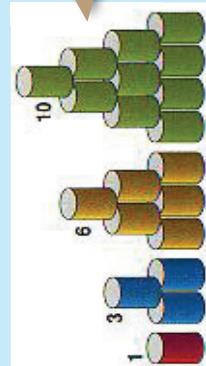
1	2	3	4	5	6	10
green	purple	green	purple	green	purple	green

# Investigate and extend geometric patterns

52

## Let us do some practical activities.

Build the following using cool drink cans. What is the difference between the patterns? What will the difference be between the fourth and the fifth pattern?



The difference between the first and second pattern is 2, between the second and the third pattern is 3, and between the third and fourth pattern is 4.

Build the following using bottle tops. What is the difference between the patterns? What will the difference be between the fourth and the fifth pattern?



The difference between the first and second pattern is 3, between the second and the third pattern is 5, and between the third and fourth pattern is 7.

1. Extend each pattern. Say what is the difference between the patterns. Say if the difference is the same or different between the patterns.

a.				
b.				
c.				

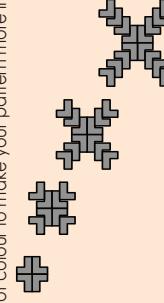
a.			
b.			
c.			

## 2. Extend the patterns.

a.			
b.			

## Be creative

Extend this pattern. Make use of colour to make your pattern more interesting.

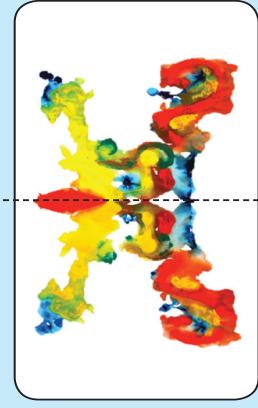


# Symmetry

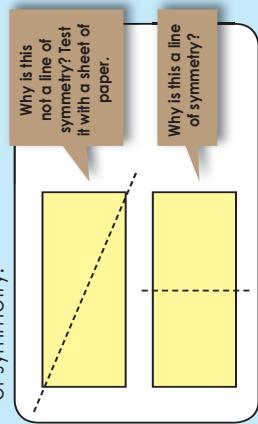
53

## Do these two practical activities.

Make a symmetrical picture using **paper** and **paint**. Describe your picture. Draw a line of symmetry.



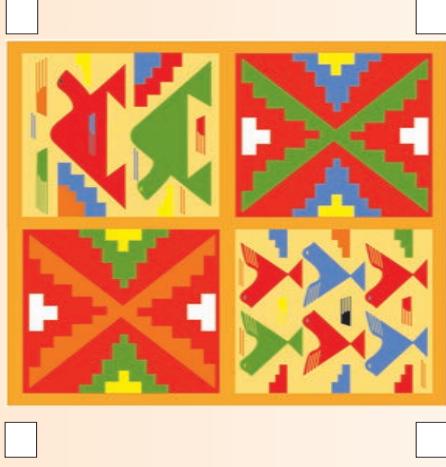
Use **paper** to show the line of symmetry. When the folded part fits perfectly on top (all edges matching), then the fold line is a line of symmetry.



## 3. Draw a line of symmetry on these real life objects.



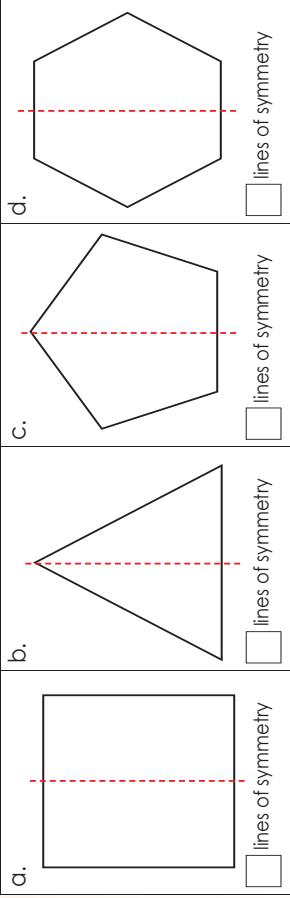
5. Which of these pictures have lines of symmetry?



4. Colour the butterflies to show that they are symmetrical.

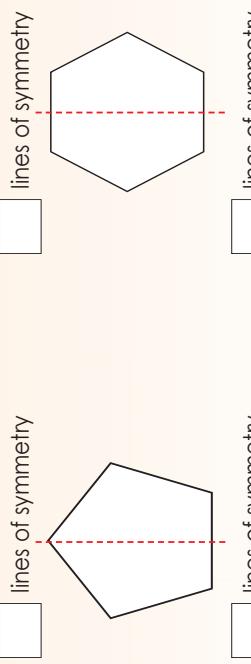


6. How many more lines of symmetry can you identify? What is the total number?



How many?  
How many lines of symmetry will a regular octagon have?

1. Are these the only lines of symmetry? How many more lines of symmetry can you identify? Draw them in a different colour.



2. Why do we have only one line of symmetry on this triangle?

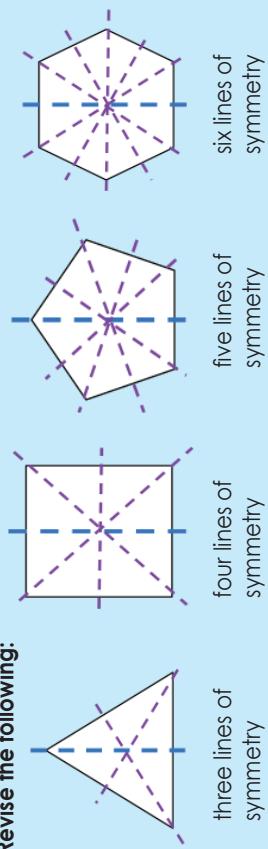


Sign  
Date:

## 54

## Lines of Symmetry

**Revise the following:**



**1. Show the lines of symmetry on the letters that are symmetrical.**

A	B	C	D	E	F
G	H	I	J	K	L
M	N	O	P	Q	R
S	T	U	V	W	X
Y	Z				

Term 2

**3. Answer these questions.**

- Does the shape have a line or lines of symmetry? Answer yes or no.
- How many lines of symmetry will the following shapes have? Show the lines of symmetry on the shapes that are symmetrical.

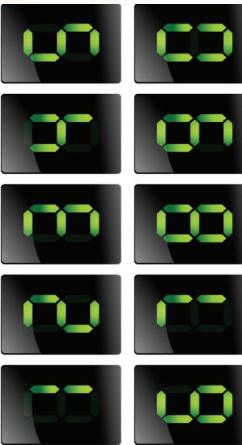
a.		i. _____ lines of symmetry ii. _____ lines of symmetry
b.		i. _____ lines of symmetry ii. _____ lines of symmetry
c.		i. _____ lines of symmetry ii. _____ lines of symmetry
d.		i. _____ lines of symmetry ii. _____ lines of symmetry
e.		i. _____ lines of symmetry ii. _____ lines of symmetry
f.		i. _____ lines of symmetry ii. _____ lines of symmetry
g.		i. _____ lines of symmetry ii. _____ lines of symmetry
h.		i. _____ lines of symmetry ii. _____ lines of symmetry

**The flag**



Is the South African flag symmetrical?

- We will find numbers like these on, for example, a digital clock. Write in the block on the right-hand side the numbers that are symmetrical. Show the line of symmetry.



## Addition and subtraction

55

What is the difference between the numbers? Count forwards.

1 000	2 000	3 000	4 000	5 000
2 600	2 700	2 800	2 900	3 000
500	1 500	2 500	3 500	4 500
109	1 109	2 109	3 109	4 109
1 500	2 000	2 500	3 500	4 000

What is the difference between the numbers? Count backwards.

1. What number comes next?

- a. 1 000, 2 000, 3 000,
- b. 3 300, 3 400, 3 500,
- c. 689, 1 689, 2 689,
- d. 2 760, 3 760, 4 760,

2. Complete the table by adding or subtracting to or from the number in the first column.

Number	Add 100	Subtract 100	Add 1 000	Subtract 1 000
3 212				
2 910				
3 106				
1 069				
2 989				

Example 2:

$$2\ 459 + 1\ 816 = 2\ 000$$

$$= 2\ 000 + 1\ 000 + 400 + 800 + 50 + 10 + 9 + 6$$

$$= 3\ 000 + 1\ 200 + 60 + 15$$

$$= 3\ 000 + 1\ 000 + 200 + 60 + 10 + 5$$

$$= 4\ 000 + 200 + 70 + 5$$

$$= 4\ 275$$



3. Calculate these sums. Write the steps you use on a separate piece of paper.

a. $2\ 481 + 1\ 318 =$ <input type="text"/>	b. $1\ 516 + 3\ 243 =$ <input type="text"/>
c. $3\ 265 + 1\ 329 =$ <input type="text"/>	d. $2\ 548 + 1\ 264 =$ <input type="text"/>
e. $1\ 458 + 1\ 258 =$ <input type="text"/>	f. $1\ 786 + 2\ 547 =$ <input type="text"/>

4. Complete the word problems. Show your calculations.

a. There were 75 children in the music lesson, 15 went home early and 3 went to soccer lessons. How many children were left in the music lesson?

$$\begin{array}{l} \text{a. } 75 - 15 - 3 = \\ \text{b. } 3 300 - 3 400 - 3 500 = \\ \text{c. } 2 760 - 3 760 - 4 760 = \end{array}$$

b. Andile collects 2 283 cans for recycling in the first month. He collects 3 325 cans in the second month. How many cans did he collect altogether?

Continue on an extra sheet of paper

I dropped my number puzzle.

<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Examples:

Example 1:

$$\begin{aligned} 1\ 256 + 1\ 323 &= 1\ 000 + 200 + 300 + 50 + 20 + 6 + 3 \\ &= 2\ 000 + 500 + 70 + 9 \\ &= 2\ 579 \end{aligned}$$

Example 2:

1 000 + 200 + 50 + 6 + 1 000 + 300 + 20 + 3

= 1 000 + 1 000 + 200 + 300 + 50 + 20 + 6 + 3

= 2 000 + 500 + 70 + 9

= 2 579

## Addition and subtraction up to 4-digit numbers



What is the difference between the numbers? Count forwards and backwards.

6 000	7 000	8 000	9 000	10 000
3 070	4 070	5 070	6 070	7 070
3 600	4 600	5 600	6 600	7 600
5 900	6 900	7 900	8 900	9 900
5 998	6 098	6 198	6 298	6 398

What is "new"

- c. 6 989, 7 989, 8 989,  
d. 8 406, 8 906, 9 406

## 2. Complete the table

Number	Add 100	Subtract 100	Add 1 000	Subtract 1 000
7 416				
8 896				
4 560				
6 209				
8 008				

Calculate the following:

- $$\text{b. } 8721 + 657 =$$

$$\text{C. } 4825 + 1265 =$$

d.  $2\ 548 + 6\ 980 =$

**4. Subtract the following:**

- $$\text{b. } 7958 - 394 =$$

c.  $9864 - 1459 =$       d.  $8210 - 5784 =$

5. 3 500 people attended the first show of a concert.  
Another 2 425 booked tickets for the second show but 518 of them did not arrive.  
How many people attended the second show?

**How quick can you calculate?**

start

ANSWER

# 8

## Addition of 4-digit numbers

**57**



**Explain the following:**

8 934	8 000 + 900 + 30 + 4
6 892	6 000 + 800 + 90 + 2
5 035	5 000 + 30 + 5
7 002	7 000 + 2

**1. Complete the following, using the example provided.**

**Example**

8 + 7 =	15	= 10 + 5
80 + 70 =	150	= 100 + 50
800 + 700 =	1 500	= 1 000 + 500

a.  $9 + 6 =$    $= 10 + 5$    $=$

b.  $5 + 6 =$    $=$

c.  $90 + 60 =$    $=$    $=$

d.  $4610 + 5379 =$

e.  $7562 + 2548 =$

f.  $4618 + 3795 =$

**2. Calculate the following:**

**Example:**

Calculate  $5362 + 2486$

$$\begin{aligned}
 & 5362 + 2486 \\
 & = 5000 + 300 + 60 + 2 + 2000 + 400 + 80 + 6 \\
 & = 5000 + 2000 + 300 + 400 + 60 + 80 + 2 + 6 \\
 & = 7000 + 700 + 140 + 8 \\
 & = 7848
 \end{aligned}$$

$$\begin{aligned}
 & 2 + 6 = 8 \\
 & \text{And } 60 + 80 = 140 \\
 & \text{And } 300 + 400 = 700 \\
 & \text{And } 5000 + 2000 = 7000 \\
 & 5362 + 2486 = 7848
 \end{aligned}$$

**At the zoo**

There were 3 562 people at the zoo during the first week of February. During the second week there were 3 498. How many people visited the zoo during the first two weeks of February?

Sign \_\_\_\_\_  
Date \_\_\_\_\_

# Problem solving: addition and subtraction

58

Look at the pictures. How do you feel when you get a problem to solve? How should you feel if you want to do well in mathematics?



## 1. Solve the following problems:

- a. Anandi bought an oven for R3 780 and a dinner set for R6 560. How much did she pay altogether?



- b. Susan earns R3 460 each month cooking. How much does she earn in two months?



<p>e. Mandla and Thandi bought plane tickets to visit their older brother in England. They paid R7 678 for one ticket. How much did the two tickets cost together?</p>	<p>f. Shakira has to send out books to schools in each province. She still needs to send 2 895 copies to Northern West and 4 678 copies to the Northern Cape. How many copies have not been delivered yet?</p>

<p>g. Lerato is getting married. She paid R2 578 for the flowers and R4 243 for the food. How much did she have to pay for the flowers and the food together?</p>	

**Four-digit problems**

Create your own interesting maths problem using two 4-digit numbers.



# Sharing and Grouping problems

59

Describe the picture you see when you do these division sums.

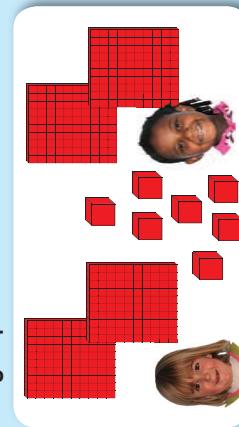
## 2. Complete the following:

**2**

$20 \div 2 =$ <input type="text"/>	$200 \div 2 =$ <input type="text"/>
$18 \div 2 =$ <input type="text"/>	$180 \div 2 =$ <input type="text"/>
$16 \div 2 =$ <input type="text"/>	$160 \div 2 =$ <input type="text"/>
$14 \div 2 =$ <input type="text"/>	$140 \div 2 =$ <input type="text"/>
$12 \div 2 =$ <input type="text"/>	$120 \div 2 =$ <input type="text"/>
$10 \div 2 =$ <input type="text"/>	$100 \div 2 =$ <input type="text"/>
$8 \div 2 =$ <input type="text"/>	$80 \div 2 =$ <input type="text"/>
$6 \div 2 =$ <input type="text"/>	$60 \div 2 =$ <input type="text"/>
$4 \div 2 =$ <input type="text"/>	$40 \div 2 =$ <input type="text"/>

$20 \div 2 =$ <input type="text"/>	$200 \div 2 =$ <input type="text"/>
$18 \div 2 =$ <input type="text"/>	$180 \div 2 =$ <input type="text"/>
$16 \div 2 =$ <input type="text"/>	$160 \div 2 =$ <input type="text"/>
$14 \div 2 =$ <input type="text"/>	$140 \div 2 =$ <input type="text"/>
$12 \div 2 =$ <input type="text"/>	$120 \div 2 =$ <input type="text"/>
$10 \div 2 =$ <input type="text"/>	$100 \div 2 =$ <input type="text"/>
$8 \div 2 =$ <input type="text"/>	$80 \div 2 =$ <input type="text"/>
$6 \div 2 =$ <input type="text"/>	$60 \div 2 =$ <input type="text"/>
$4 \div 2 =$ <input type="text"/>	$40 \div 2 =$ <input type="text"/>

Look at the two pictures below. Use the words 'group' and 'share' to describe it.



1. Complete the table using the example in the first row to guide you:

Share between	Division sum								
	$80 \div 8 =$ <input type="text"/>								
8		0	10	20	30	40	50	60	70
									80
5		0	10	20	30	40	50		
3		0	100	200	300				
4		0	100	200	300	400			
2		0	100	200					

**5**

$30 \div 3 =$ <input type="text"/>	$300 \div 3 =$ <input type="text"/>
$27 \div 3 =$ <input type="text"/>	$270 \div 3 =$ <input type="text"/>
$24 \div 3 =$ <input type="text"/>	$240 \div 3 =$ <input type="text"/>
$21 \div 3 =$ <input type="text"/>	$210 \div 3 =$ <input type="text"/>
$18 \div 3 =$ <input type="text"/>	$180 \div 3 =$ <input type="text"/>
$15 \div 3 =$ <input type="text"/>	$150 \div 3 =$ <input type="text"/>
$12 \div 3 =$ <input type="text"/>	$120 \div 3 =$ <input type="text"/>
$9 \div 3 =$ <input type="text"/>	$90 \div 3 =$ <input type="text"/>
$6 \div 3 =$ <input type="text"/>	$60 \div 3 =$ <input type="text"/>

**5**

$50 \div 5 =$ <input type="text"/>	$500 \div 5 =$ <input type="text"/>
$45 \div 5 =$ <input type="text"/>	$450 \div 5 =$ <input type="text"/>
$40 \div 5 =$ <input type="text"/>	$400 \div 5 =$ <input type="text"/>
$35 \div 5 =$ <input type="text"/>	$350 \div 5 =$ <input type="text"/>
$30 \div 5 =$ <input type="text"/>	$300 \div 5 =$ <input type="text"/>
$25 \div 5 =$ <input type="text"/>	$250 \div 5 =$ <input type="text"/>
$20 \div 5 =$ <input type="text"/>	$200 \div 5 =$ <input type="text"/>
$15 \div 5 =$ <input type="text"/>	$150 \div 5 =$ <input type="text"/>
$10 \div 5 =$ <input type="text"/>	$100 \div 5 =$ <input type="text"/>

**2**

<b>2</b>	<b>5</b>	<b>8</b>	<b>11</b>	<b>13</b>	<b>16</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>
<b>6</b>	<b>3</b>	<b>11</b>	<b>1</b>	<b>7</b>	<b>9</b>	<b>32</b>	<b>10</b>	<b>10</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>99</b>	<b>7</b>	<b>11</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>88</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>61</b>	<b>11</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>

**3**

<b>3</b>	<b>5</b>	<b>8</b>	<b>11</b>	<b>13</b>	<b>16</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>
<b>6</b>	<b>3</b>	<b>11</b>	<b>1</b>	<b>7</b>	<b>9</b>	<b>32</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>99</b>	<b>7</b>	<b>11</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>88</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>61</b>	<b>11</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>

**8**

<b>8</b>	<b>11</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>6</b>	<b>9</b>	<b>10</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>
<b>6</b>	<b>3</b>	<b>11</b>	<b>1</b>	<b>7</b>	<b>9</b>	<b>32</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>99</b>	<b>7</b>	<b>11</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>88</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>61</b>	<b>11</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>

**9**

<b>9</b>	<b>11</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>6</b>	<b>9</b>	<b>10</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>
<b>6</b>	<b>3</b>	<b>11</b>	<b>1</b>	<b>7</b>	<b>9</b>	<b>32</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>99</b>	<b>7</b>	<b>11</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>88</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>61</b>	<b>11</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>

**10**

<b>10</b>	<b>12</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>6</b>	<b>9</b>	<b>10</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>
<b>6</b>	<b>3</b>	<b>11</b>	<b>1</b>	<b>7</b>	<b>9</b>	<b>32</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>99</b>	<b>7</b>	<b>11</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>88</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>61</b>	<b>11</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>

**11**

<b>11</b>	<b>13</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>6</b>	<b>9</b>	<b>10</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>
<b>6</b>	<b>3</b>	<b>11</b>	<b>1</b>	<b>7</b>	<b>9</b>	<b>32</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>99</b>	<b>7</b>	<b>11</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>88</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>61</b>	<b>11</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>

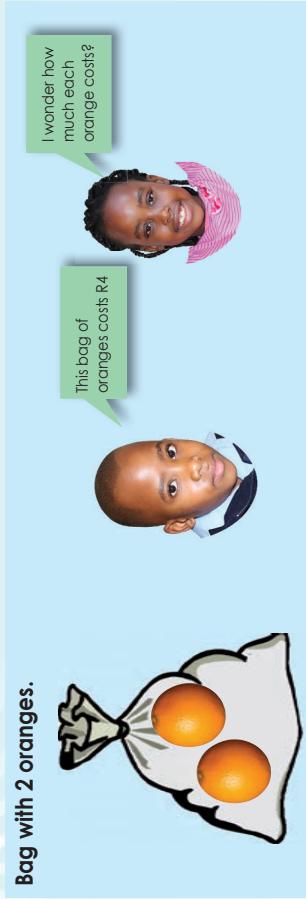
**12**

**12**	**14**	**1**	**3**	**5**	**6**	**9**	**10**	**12**	**13**	**15**	**17**	**18**	**19**	**20**	**21**



<tbl\_r cells="16" ix="3" maxcspan

### 3. Complete the following:



Bag with 2 oranges.

- ### 1. Complete the following:

per orange

per orange

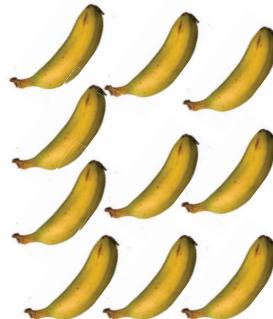
It's R  
per apple

- 2 Write questions 1 a b c d and e above with the "/" symbol

- a. R
- b. R
- c. R
- d. R
- e. R

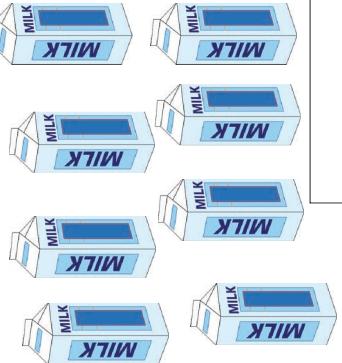
How much do these apples cost if one apple costs R2?

How much do these bananas cost if each banana costs R1.50?

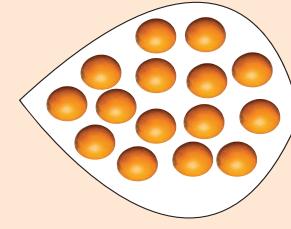


10 of 10

The milk costs R10/litre. How much does this milk cost?



Quick counts



**Remember:** always do this activity when you go to a shop.  
This will sharpen your mental maths skills.

This will strain your imagination.

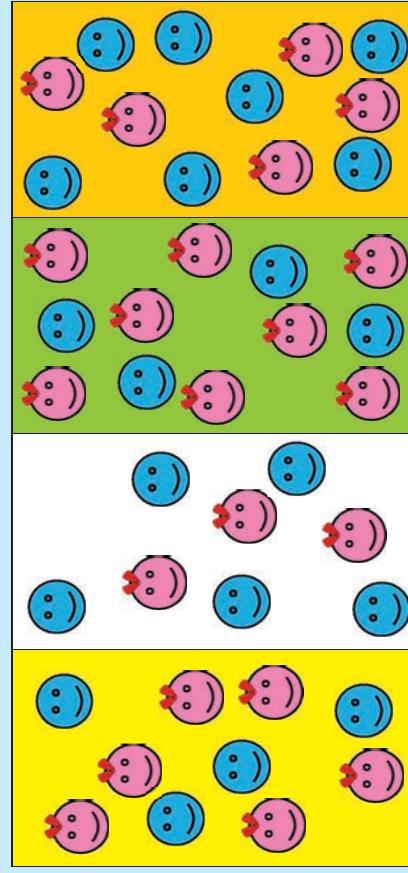
Sign

Date:

## Ratio

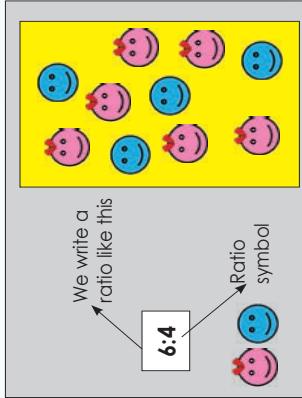
61

How many girls are there in each picture?  
How many boys are there in each picture?

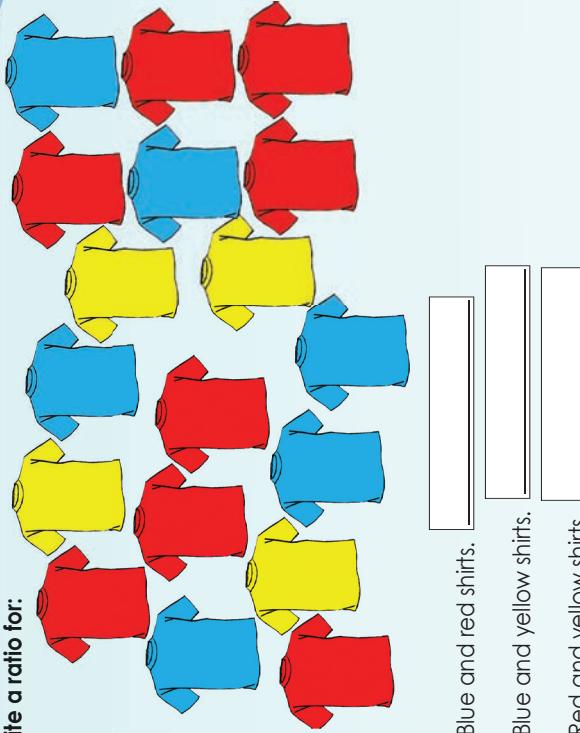


1. Complete the following:

Class	Girls	Boys	We can write it as:
Yellow	6	4	6:4
White			
Green			
Orange			



2. Write a ratio for:



- a. Blue and red shirts.
- b. Blue and yellow shirts.
- c. Red and yellow shirts.

3. Draw the following:

Red and yellow flowers	4:5	Dogs and cats	8:6
Boys and girls	8:10	Apples and bananas	7:8

I love my teacher ...

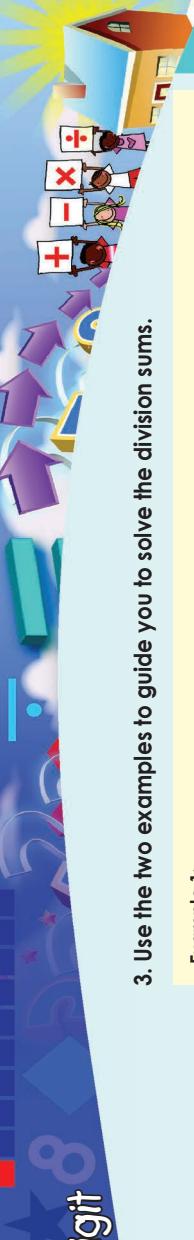
You have written this message for your teacher. What will the ratios be between:

- Red and blue jelly tots?
- Green and black jelly tots?
- Oranges and blue jelly tots?



# Division of 2-digit numbers by 1-digit numbers

62



## Term 2

### 3. Use the two examples to guide you to solve the division sums.

Reverse these division sums by giving a multiplication sum for each. We call this an inverse operation.

$14 \div 2 = 7$	$50 \div 5 = 10$	$9 \div 3 = 3$	$36 \div 9 = 4$
$48 \div 6 = 8$	$15 \div 3 = 5$	$12 \div 2 = 6$	$24 \div 8 = 3$
$49 \div 7 = 7$	$64 \div 8 = 8$	$21 \div 3 = 7$	$35 \div 7 = 5$
$6 \div 3 = 2$	$25 \div 5 = 5$	$60 \div 6 = 10$	$40 \div 5 = 8$
$12 \div 6 = 2$	$18 \div 2 = 9$	$14 \div 7 = 2$	$40 \div 8 = 5$

#### 1. Give the inverse operation for the following.

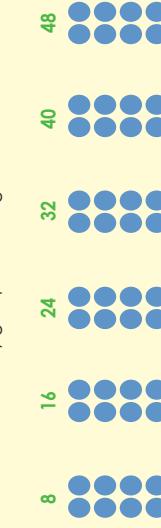
- a.  $57 \div 3 =$   b.  $56 \div 8 =$   c.  $60 \div 5 =$    
 d.  $63 \div 9 =$   e.  $68 \div 4 =$   f.  $48 \div 2 =$    
 g.  $54 \div 6 =$   h.  $45 \div 9 =$   i.  $42 \div 7 =$

#### 2. Use the two examples to guide you to solve the division sums.

##### Example 1:

$50 \div 8 =$

We can ask ourselves. How many groups of 8 will give us 50?



##### Example 2:

$50 \div 8 =$

We can ask ourselves. If I share 50 between 8, how much will each get?

$1 \times 8 = 8$
$2 \times 8 = 16$
$3 \times 8 = 24$
$4 \times 8 = 32$
$5 \times 8 = 40$
<b><math>6 \times 8 = 48</math></b>
$7 \times 8 = 56$
$8 \times 8 = 64$
$9 \times 8 = 72$

##### Example 2:

$50 \div 8 =$

We can ask ourselves. If I share 50 between 8, how much will each get?

Let us share



If we share 8 between 50 we will get 6 and two remainders.

- a.  $60 \div 8 =$   b.  $40 \div 9 =$   c.  $31 \div 5 =$    
 d.  $43 \div 2 =$   e.  $66 \div 7 =$   f.  $49 \div 4 =$

##### Example 1: 500 ÷ 8

We can ask ourselves how many groups of 8 will give us 500.

We say:

$10 \text{ groups of } 8 = 80$	$10 \times 8 = 80$
$20 \text{ groups of } 8 = 160$	$20 \times 8 = 160$
$30 \text{ groups of } 8 = 240$	$30 \times 8 = 240$
$40 \text{ groups of } 8 = 320$	$40 \times 8 = 320$
$50 \text{ groups of } 8 = 400$	$50 \times 8 = 400$
<b><math>60 \text{ groups of } 8 = 480</math></b>	<b><math>60 \times 8 = 480</math></b>
$70 \text{ groups of } 8 = 560$	$70 \times 8 = 560$

We write:

Now we can ask ourselves how many groups of 8 will give us 20.

We say:

$1 \text{ group of } 8 = 8$	$1 \times 8 = 8$
$2 \text{ groups of } 8 = 16$	$2 \times 8 = 16$
$3 \text{ groups of } 8 = 24$	$3 \times 8 = 24$

We write:

Two groups of 8 will give me 16 with **4** left.

**2 groups** of 8 will give us 16  
3 groups of 8 will give us 24  
24 is too big, so we will choose 2 groups

**60 groups + 2 groups = 62 groups**

$500 \div 8 = 62 \text{ rem } 4$

##### Example 2:

$60 \text{ groups of } 8 = 480$
$500$
$\overline{-48}$
$-20$
$\overline{-16}$
$4$

- a.  $650 \div 9 =$   b.  $400 \div 9 =$   c.  $301 \div 5 =$

### Sharing equally problems

- a. How many groups of 4 can you make with 36 marbles?  
 b. How many groups of 8 can you make with 56 counters?  
 c. How many groups of 6 can you make with 42 cards?  
 d. Share 54 counters amongst 6 children.  
 e. Share 47 marbles amongst 4 children.  
 f. Share 43 sweets amongst 6 children.

Date: \_\_\_\_\_

159

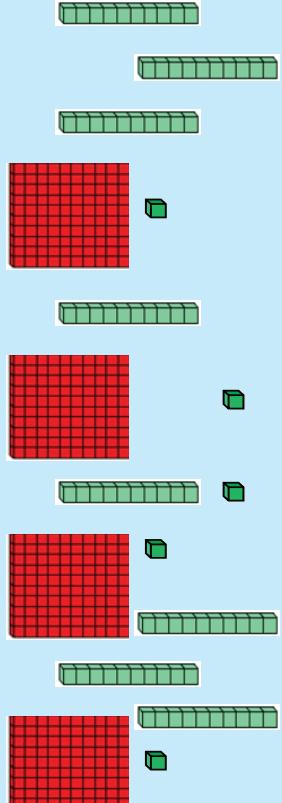
158

30 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0

# Division of 3-digit numbers by 1-digit numbers

**63**

Share the blocks between 2 children. Do you have any blocks left?



1. Calculate the following:

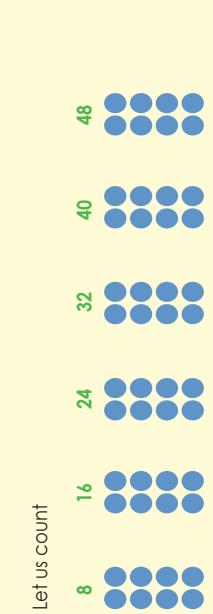
Example 1:

$$375 \div 8 =$$

Let us break down them number 375 into  $(370 + 5)$ .

Let us ask ourselves how many groups of 8 will give us 37?

<b>Tens <math>\times</math> 8</b>							
$10 \times 8 = 80$							
$20 \times 8 = 160$							
$30 \times 8 = 240$							
<b>40 <math>\times</math> 8 = 320</b>							
$50 \times 8 = 400$							
$60 \times 8 = 480$							
$70 \times 8 = 560$							
$80 \times 8 = 640$							
$90 \times 8 = 720$							



4 groups will give us 32 but 5 groups are too big. How many groups of 8 will give us 370.  
40 groups will give us 320 but 50 groups will give us 400. We have 50 left plus 5.

How many groups of 8 will give us 55.



6 groups will give us 48 but 7 groups is too big.  
So we have 48 and 7 left over.

The answer to  $375 \div 8$  is 46 remainder 7.

a.  $925 \div 2 =$

b.  $457 \div 7 =$

c.  $596 \div 3 =$

d.  $338 \div 8 =$

e.  $767 \div 4 =$

f.  $806 \div 9 =$

g.  $649 \div 5 =$

h.  $179 \div 8 =$

i.  $285 \div 6 =$

## Sharing the money

We are four children in our family. My father gave us R350 to share. We each received the same amount in full rands. How many rands remained?

# Division problems

64

**Here are some key words for division and multiplication. Can you add any other words to the list?**

Multiply by, multiply, groups of, product, lots of, times table, times, of

Divide by, share, share equally, divisible, divide into, group

## 1. Solve the following problems:

a. I bought five sport t-shirts for R265. How much did I pay per t-shirt?

i. What is the question? How much did I pay per t-shirt?

ii. What are the numbers? R265 and 5

iii. What is the key word? Per (per tells me to divide)

iv. What is the number sentence?  
 $R265 \div 5 = \square$

v. Solve it!  $R265 \div 5 = R53$

vi. Write a sentence: I paid R53 for each t-shirt.

c. The bookshop sold 8 books for R500. How much did each book cost?

d. My teacher bought 7 story books for R69 each. How much did she pay for all the story books?

i. \_\_\_\_\_

ii. \_\_\_\_\_

iii. \_\_\_\_\_

iv. \_\_\_\_\_

v. \_\_\_\_\_

vi. \_\_\_\_\_

- e. My mother bought computer gadgets for R98 each. She bought 5 gadgets. How much did she pay altogether?

i. \_\_\_\_\_

ii. \_\_\_\_\_

iii. \_\_\_\_\_

iv. \_\_\_\_\_

v. \_\_\_\_\_

vi. \_\_\_\_\_

- f. I spent R600 on 6 computer games. How much did I pay for each game?

i. \_\_\_\_\_

ii. \_\_\_\_\_

iii. \_\_\_\_\_

iv. \_\_\_\_\_

v. \_\_\_\_\_

vi. \_\_\_\_\_

- g. My mother went on a training course for 7 days. The lunch cost R75 per day. How much did she pay for her lunches?

i. \_\_\_\_\_

ii. \_\_\_\_\_

iii. \_\_\_\_\_

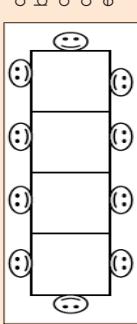
iv. \_\_\_\_\_

v. \_\_\_\_\_

vi. \_\_\_\_\_

## Seating the guests

You need seats for 58 people at your party. You make one long table by joining a number of small tables. Each small table can seat two persons, plus one at each end of the long table, e.g. the 4 small tables below can seat 10 people. How many small tables do you need?



- a. 28  
 b. 29  
 c. 30  
 d. 32  
 e. 34



# Notes



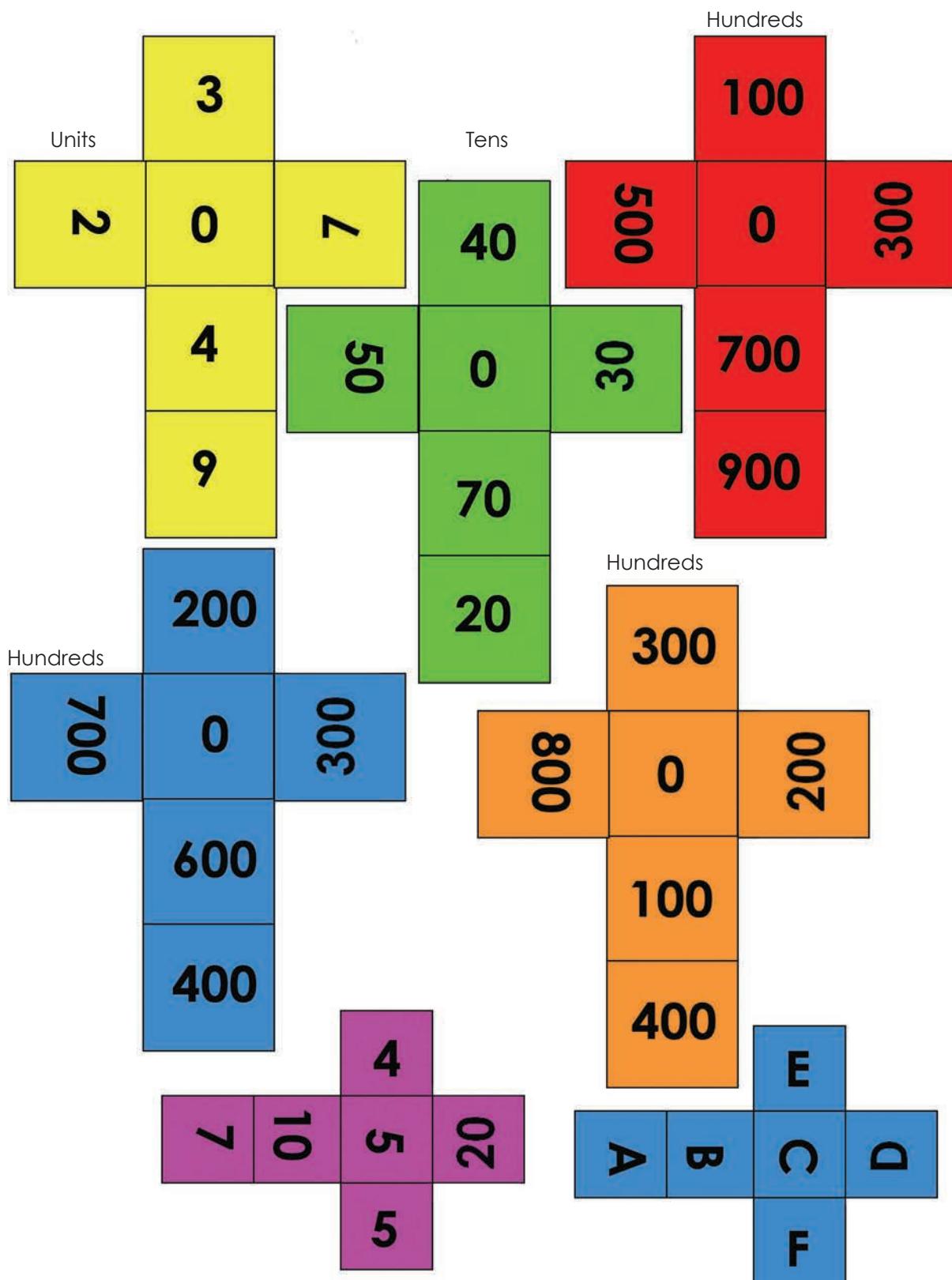

0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
-	2	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
-	2	0	2	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
-	3	0	3	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
-	4	0	4	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
-	5	0	5	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
-	6	0	6	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
-	7	0	7	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
-	8	0	8	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
-	9	0	9	0	0	0	0	0	0



# Mathematics Grade 4

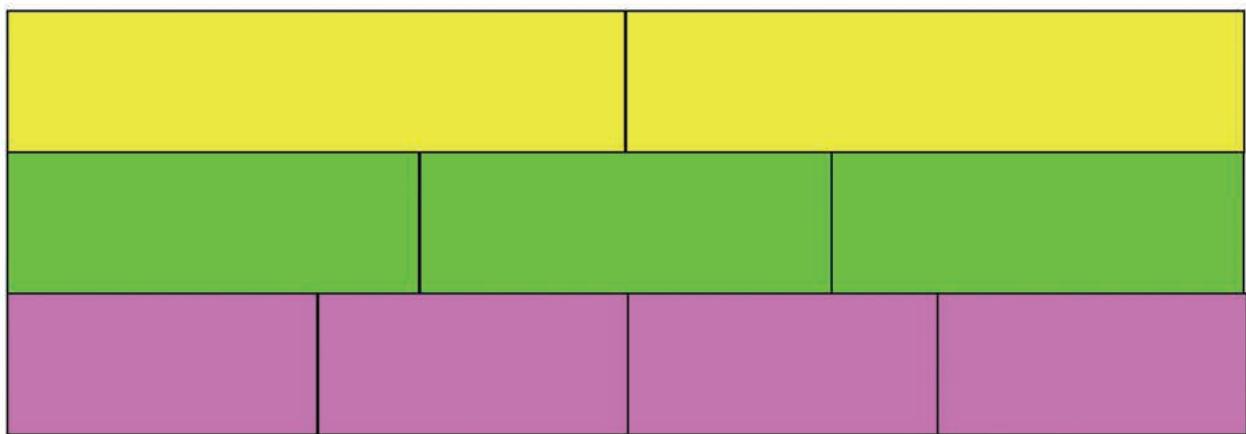
# Cut-out 3

Note: Make dice from these Cut-outs. After assembling the dice, keep them in a safe place because you will use them throughout the year.

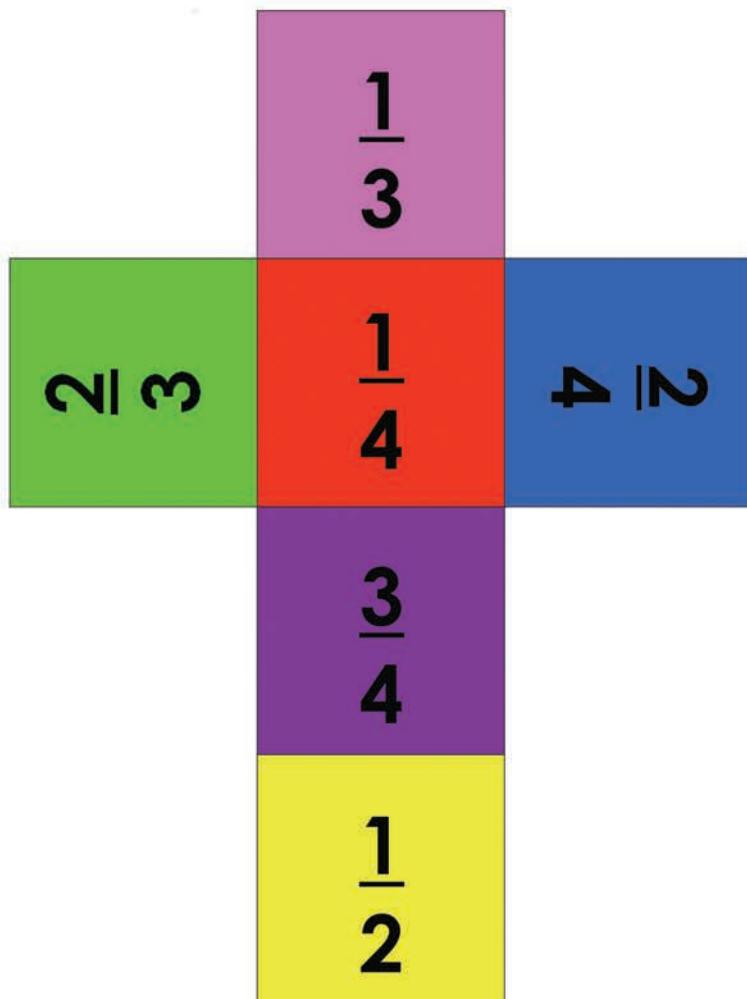




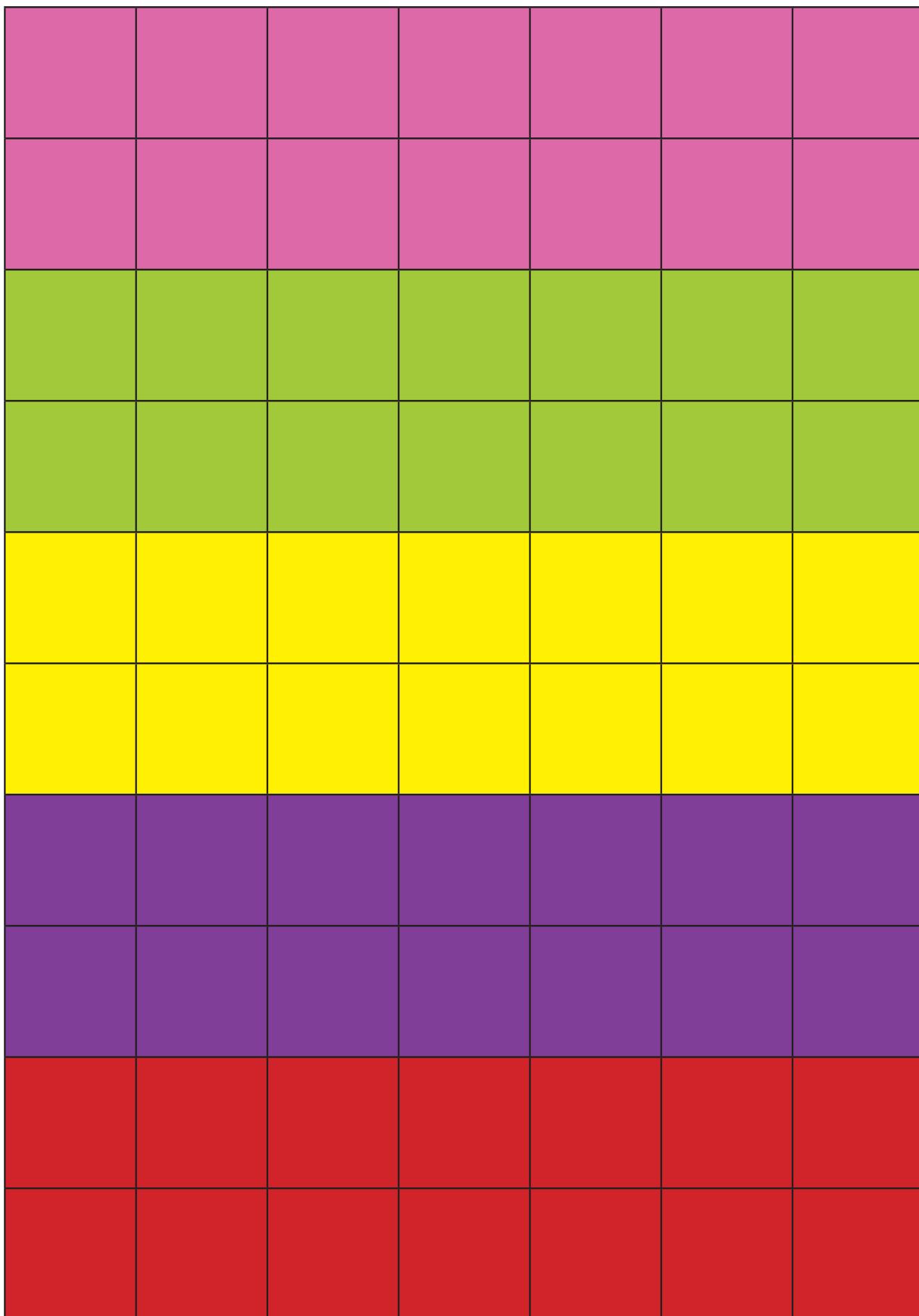
Fraction strips



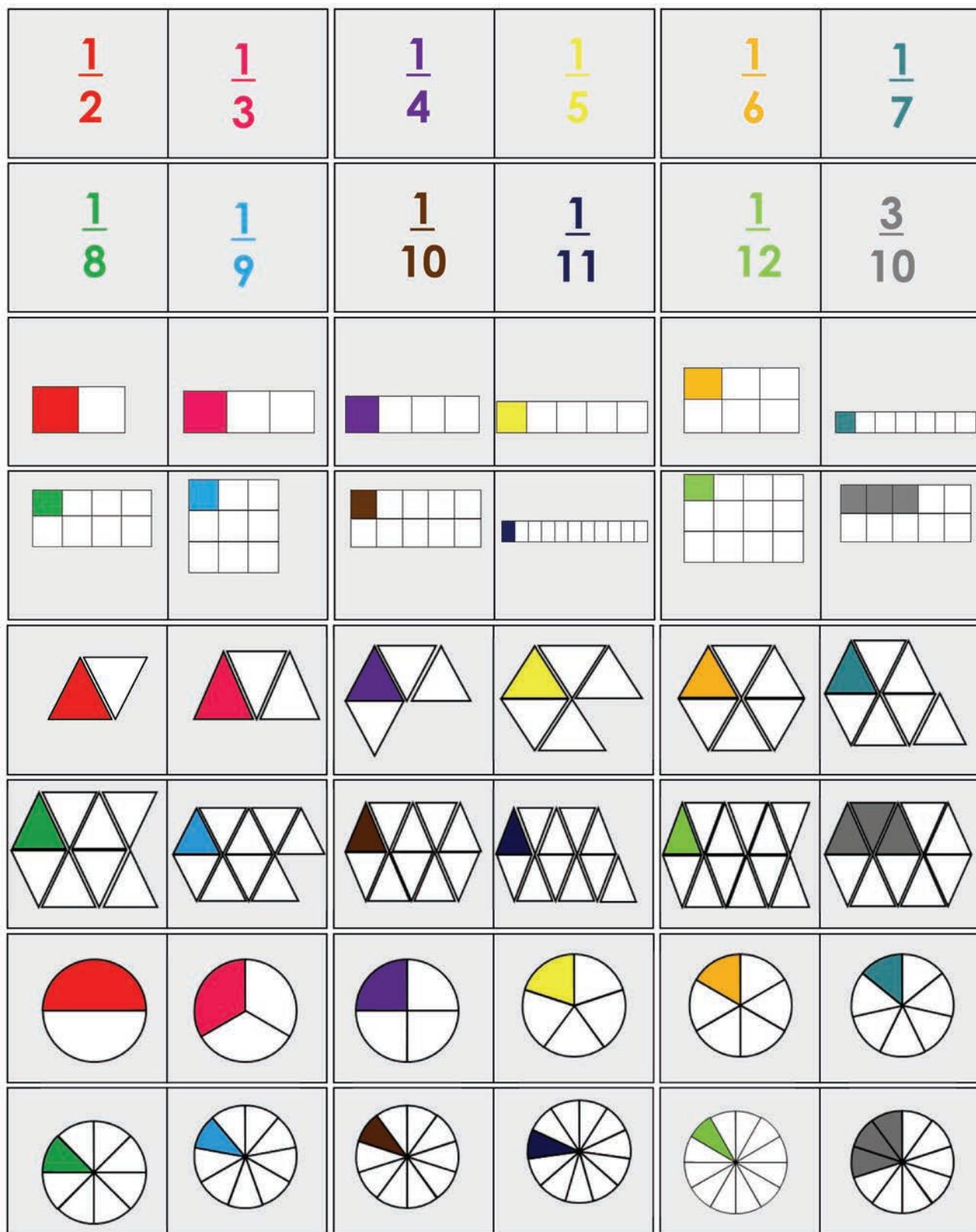
Fraction dice













**Mathematics Grade 4**  
**Cut-out 7**

