

Mrs Angie Motshekga. Minister of Basic Education



Mr Enver Surty,

Deputy Minister

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 Motshekga, 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. 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 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.

MATHEMATICS IN ENGLISH - Grade 3 Book I

Revised and CAPS aligned

Grade 3

ISBN 978-1-4315-0004-8

Rainbow

MATHEMATICS IN ENGLISH
GRADE 3 – BOOK 1
TERMS 1 & 2
ISBN 978-1-4315-0004-8

THIS BOOK MAY NOT BE SOLD.

1 2 3 4

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Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

Name:

Class:

Book

Terms | 42

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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 HUMAN DIGNITY

- treat people with reverence, respect and dignity as we all belong to the human
- 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
- recognise that living a good and successful life involves hard work, and that anything worthwhile only comes with effort.
- by exposing children to child labour.

TO FREEDOM AND SECURITY OF THE PERSON

- not hurt, bully or intimidate others or allow others to do so.
- · solve any conflict in a peaceful manner.
- to take action to protect my safety and the safety of others.

TO EQUALITY

- treat every person equally and fairly.
- not to discriminate unfairly against anyone on the basis of race, gender, sex, pregnancy, marital status, ethnic or social origin, colour, sexual orientation, age, disability, religion, conscience, belief, culture, class, language or birth.

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

TO LIFE

not endanger the lives of others by

· live a healthy life, by exercising, eating

being infected or infecting others with

protect and defend the lives of others.

that others do so as well.



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

• to be kind and loyal to my family, to my

all my relatives.

brothers and sisters, my grandparents and

recognise that love means long-term commitment, and the responsibility to

establish strong and loving families.

TO FREEDOM OF **EXPRESSION**

- express views which do not advocate hatred, or are based on prejudices with regard to race, ethnicity, gender or
- · we must therefore take responsibility to feelings hurt.

ensure this right is not abused by ourselves or others, to not tell or spread lies, and to ensure others are not insulted or have their

· contribute in every possible way to making South Africa a great country.

carrying dangerous weapons or by acting recklessly or disobeying our rules and

- cooperate respectfully with teachers and
- adhere to the rules and the Code of Conductof the school.

 promote and reflect the culture of learning and teaching in giving effect to this right.

TO EDUCATION

- attend school regularly, to learn, and to

correctly, by not smoking, taking alcohol,

- work hard.

• to eliminate unprofessional behaviour.

or taking drugs, or indulging in irresponsible behaviour that may result in my

ensure that I attend school and receive

diseases such as HIV and AIDS.

- ensure that I participate in school
- activities. · create a home environment conducive

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.



South African Interfaith Council



This book belongs to:



HSITISH BOX

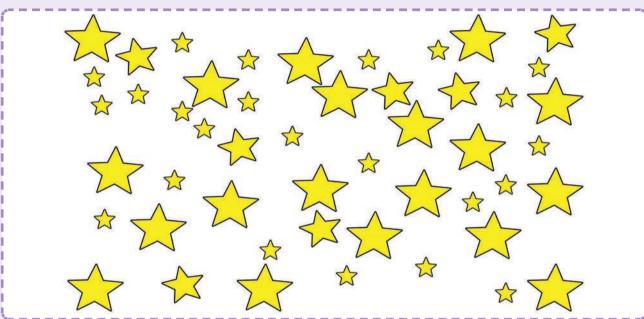


Count, sort and show!



How many stars?

Compare answers.



Estimate how many stars	
Now count them	



2

Find the winner!

Who made the best estimate?

Fill in your names and answers in this table.

Name		
Estimate		
Number counted		
Difference between your estimate and your count		



Ways to count. Help us to write it down.



I counted in ones.



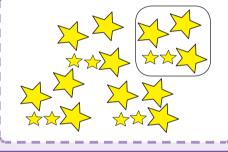
I, 2, 3,





Icounted





5,			





I counted in tens.



Write number sentences

Count the total number of big and small stars in the picture on page 2. Write them in two ways.



Small

like this





When you add any two numbers it does not matter

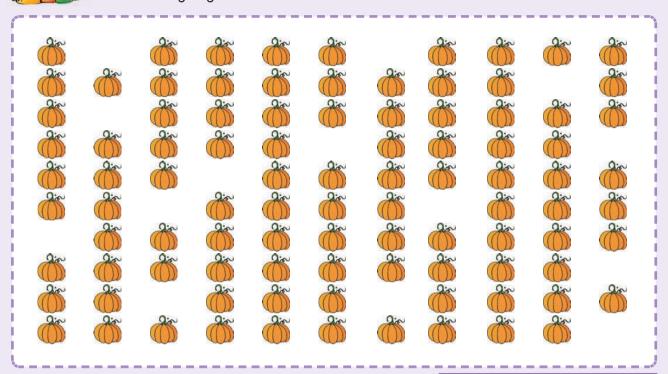
what their order is.



and as a number sentence.

Counting the pumpkins

Find an easy way to count them.



Answer: _____

Date:



Packing the pumpkins

Ten pumpkins go in one bag.



How many bags can you fill with the pumpkins?_____

How many pumpkins are left over?

How many more pumpkins are needed to fill one more bag?



From + to \times (addition to multiplication)

Complete the number sentences.

Example:

$$10 + 10 + 10 + 10 = 40 \Longrightarrow 4$$
 groups of $10 = 40 \Longrightarrow 4 \times 10 = 40$







a. $IO + IO + IO = ____$

groups of IO =
$$\longrightarrow$$
 \times $=$ $=$













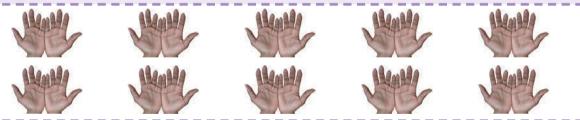




_____ groups of IO = ____ \times ___ = ____



Hands and fingers



How many hands? _____

How many fingers?_____

Write your answer in 2 ways.

____ groups of IO = ____

and

____×IO = ____

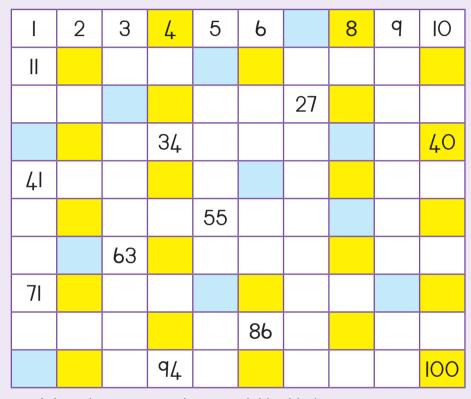


Numbers on a hundred board

Date:

Talking numbers

Count and say all the numbers from I to IOO. Point as you go.



- a. Write the missing number in each blue block.
- b. Write in the other numbers.
- c. What kind of numbers are the yellow numbers?

Write the numbers in words.

90	ninety	41	
77		56	
14		6 5	



Get ready to count a colour!

I 2 3 4 5 6 7 8 9 10 II I2 I3 I4 I5 I6 I7 I8 I9 20 2I 22 23 24 25 26 27 28 29 30 3I 32 33 34 35 36 37 38 39 40 4I 42 43 44 45 46 47 48 49 50 5I 52 53 54 55 56 57 58 59 60 6I 62 63 64 65 66 67 68 69 70 7I 72 73 74 75 76 77 78 79 80	I 2 3 L 5 6 7 8 9 10 II I2 I3 IL I5 I6 I7 I8 I9 20 2I 22 23 2L 25 26 27 28 29 30 3I 32 33 3L 35 36 37 38 39 40 4I 42 43 44 45 46 47 48 49 50 5I 52 53 54 55 56 57 58 59 60 6I 62 63 64 65 66 67 68 69 70 7I 72 73 74 75 76 77 78 79 80	I 2 3 4 5 6 7 8 9 10 II 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 Count and colour the IOs. Count in IOs from	81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 Count and colour the 5s from 0 to 100.	81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 Count and colour the 2s.
IO to IOO. Write the IOs from IO to IOO.	5 to 100. Write the 5s from 5 to 80.	2 to 100. Write the 2s from 2 to 100.

erm |

Numbers on a hundred board (continued)



Looking for patterns

I	2	3	4	5	6	7	8	q	Ю
Ш	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	55	55	56	57	58	59	60
61	62	6 3	64	6 5	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



Tick (✓) all the IOs	Cross (x) the 5s	Circle (O) the 2s					
Write the numbers that are in both the 2s and the 5s pattern.							



Counting patterns

Fill in the missing numbers.

O; IO; 2O;	;	; 50; _	;	_; 80; _	; IOO; _	;
	; I3O;	<u>;</u>	; 160;	;	;; 200	

O; 5; IO; _	;	_; 25;_	;	;	40;	_; 50; 55; _	;
	; 70;	;		; 85;	· ,	; IOO	

0; 2; 4; 6;	;	; I2;;	; 18; _	; 22; 24; _	;
; 30;	;	; 36; 38; _	;	;; 46;	;

```
0; _{---}; 8; _{---}; 16; 20; _{---}; 28; _{---}; 36; _{---}; _{---};
      ____; 52; ____; ___; 64; ____; 72; ____; 80
```

O; 3; _	; 9;	; 15; 18;	; 24;	;	; 33; _	; 39;
	; 45;	_;; 54;	57;;	63;	_;	_; 72; 75



Place value

Showing your numbers

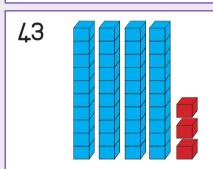
Cut out the number cards from Cut-out sheet I. Use the cards to build these numbers.

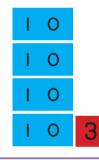






$$10 + 9 = 19$$





$$40 + 3 = 43$$

Now do it yourself for these numbers using Cut-out I.



We have done the first one for you.

We can also say 9 ones.

	J J				
19	10 + 9	I ten + 9 units	nineteen		
43					
69					
54					
35					
21					
73					
44					
32					
89					
17					
95					
56					
68					
67					



Write the first five numbers, in the table above, in order from smallest to biggest.

•	•		
 			



Addition and subtraction



Lebo's stall

In the morning Lebo has 19 packets of apples. By lunchtime she has 13 packets left.

- How many packets does Lebo sell?
- Write your answer as a number sentence.



Write five other numbers sentences to show the same answer.

$$15 - 9 = 6$$



👅 Number drill

Write the answers.







Number families

5

4

14

Here are examples of this number family.

$9+5=\underline{14}$	5 + 9 = <u>I4</u>
<u>I4</u> – 9 = 5	<u>14</u> – 5 = 9



Can you find all the number families of 14?

I + I3 = I4	13 + I = 14	14 - I = 13	1 <u>4</u> – 13 = 1
2 + I2 =			
3 + II =			
4 + IO =			
5 + 9 =			
6 + 8 =			
7 + 7 =			

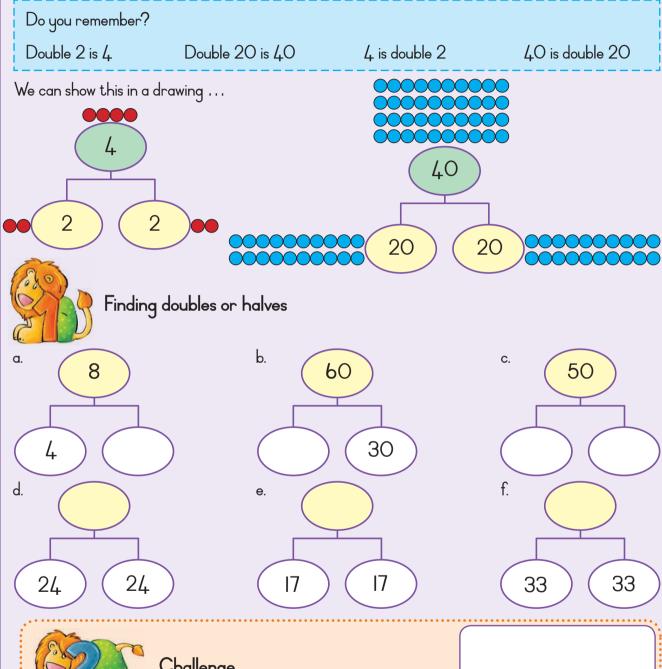


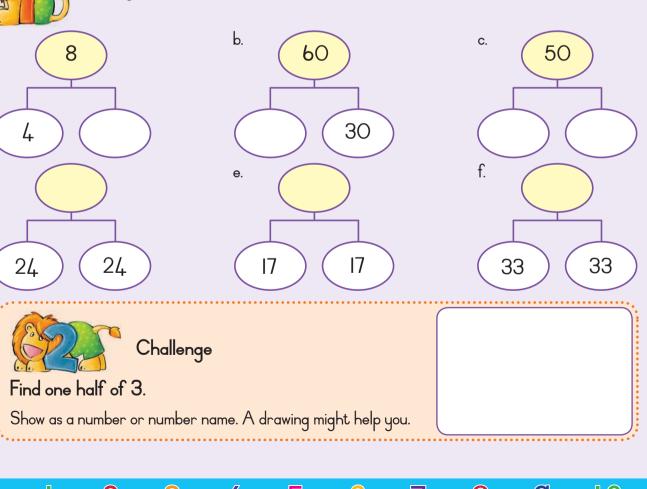
I am going to do the same with 12.

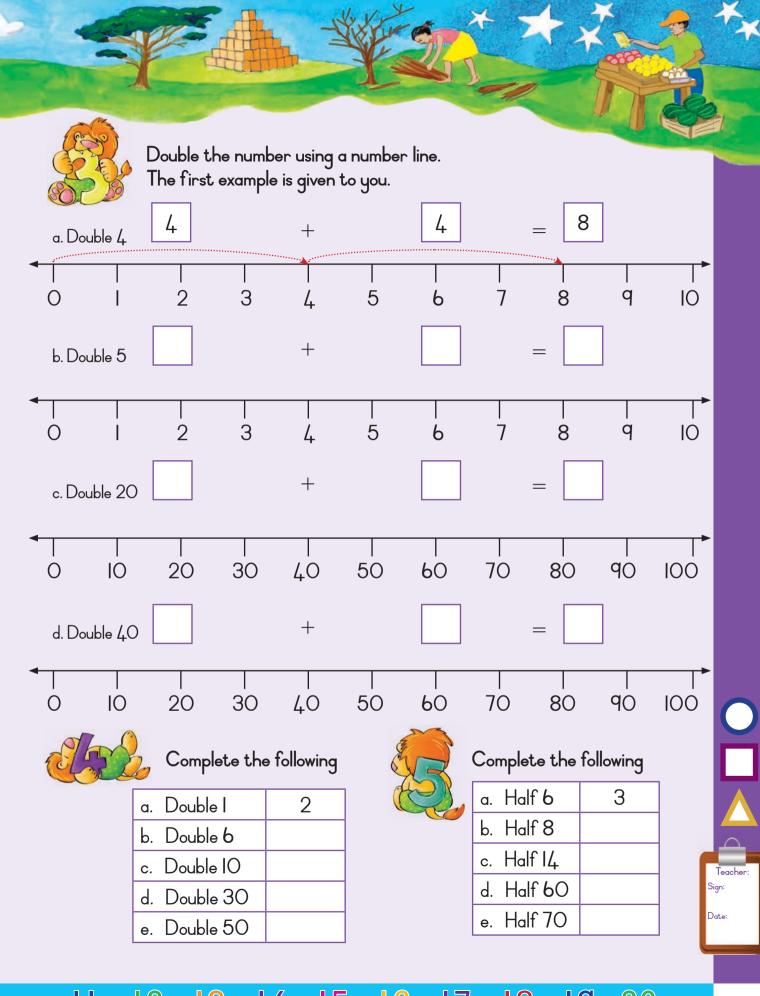
12

I + II = I2		
2 + IO = I2		
3 + 9 = 12		
4 + 8 = I2		
5 + 7 = I2		
6 + 6 = I2		













Fractions

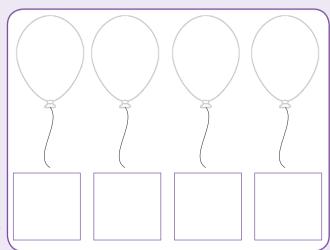
Colour one quarter of the balloons red and the rest blue.

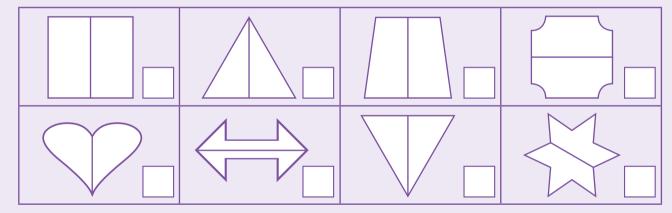
Colour one half of each box red.



Look at the shapes. Tick the shapes that show halves.

Colour one half of each shape that is divided into halves.

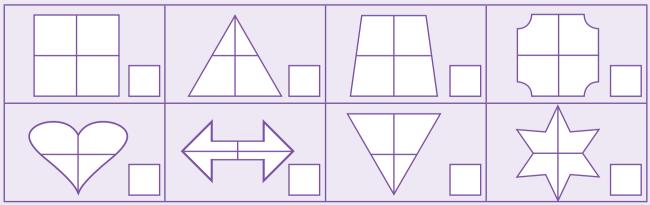


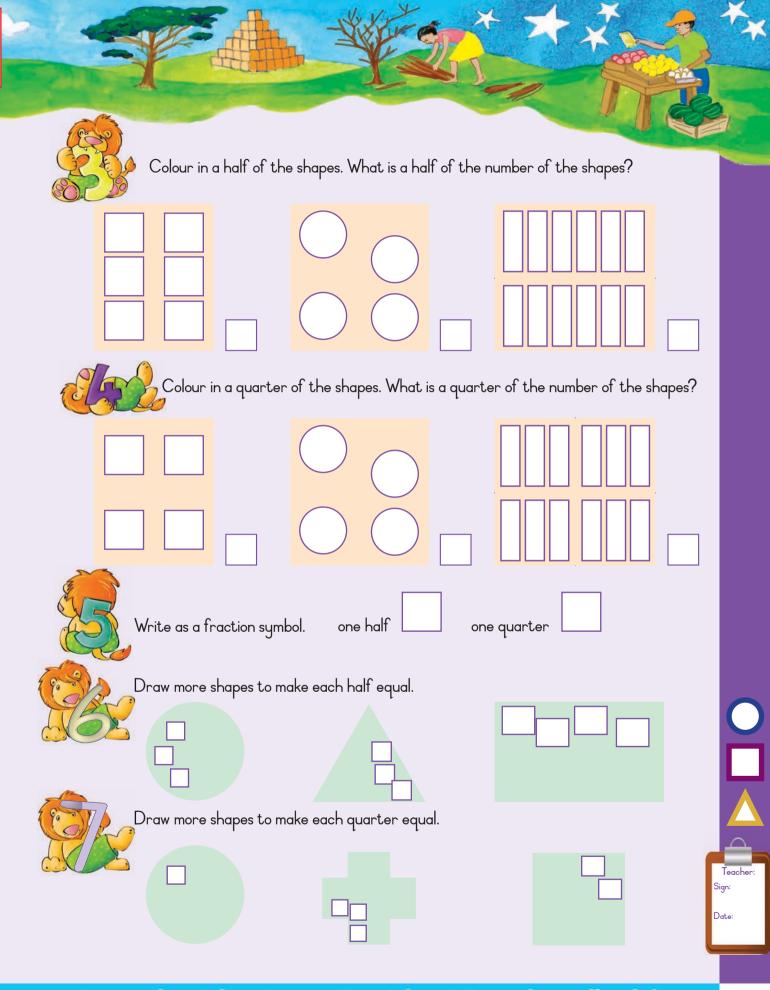




Look at the shapes. Tick the shapes that show quarters.

Colour one quarter of each shape that is exactly divided into equal quarters.





Sorting money

At the stokvel

Ma Lubisi counts and sorts the money from the group.





Date:





Estimate the total amount. R_____

Count the money. R_____

Compare estimates and totals.



18

Saving money

Gugu saves for a pair of shoes that costs R89.

So far she has half the amount.

How much more does she need?

Write a number sentence to show your answer.



2 3 4 5 6 7 8 9 [



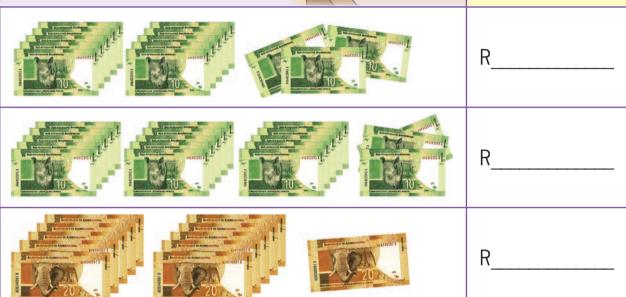
Maria sorts the notes into piles of 5.

She also has some notes left over.

Write the totals for each row of pictures.



 A_{mount}





Challenge Challenge

A visit to the zoo

Some adults and children go to the zoo.

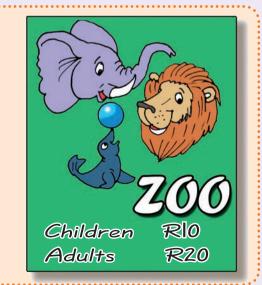
They buy tickets for R90.

How many are children?

How many are adults? _____

Is there another answer?

Adults _____ Children ____







Patterns



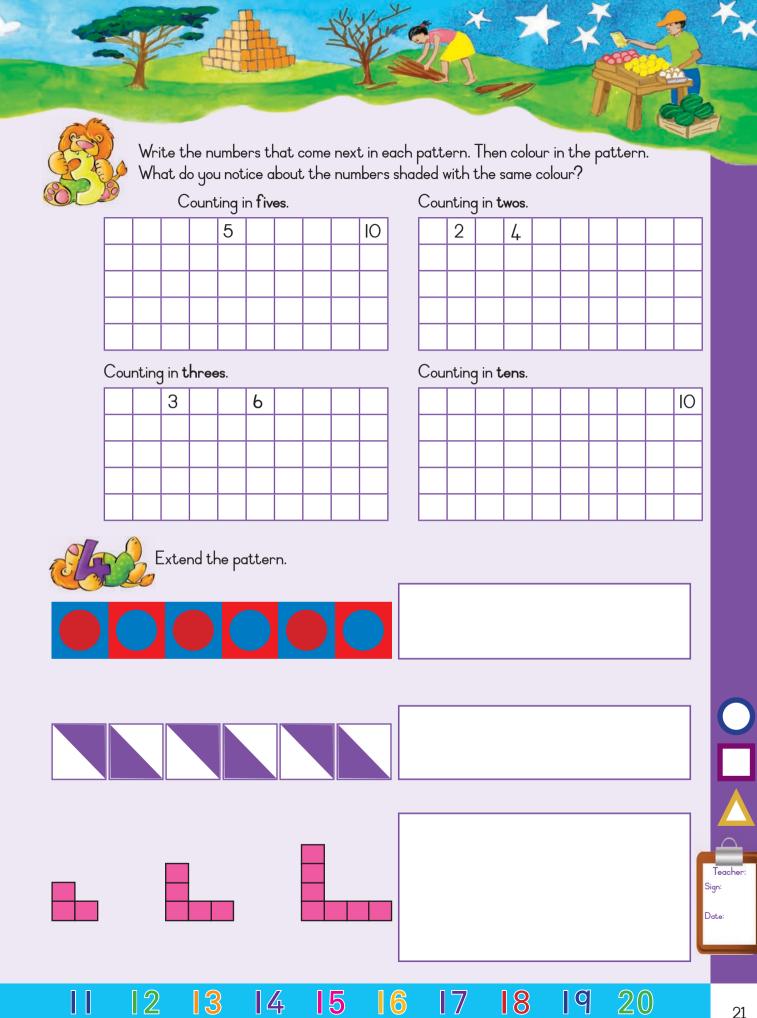
Use this 200 number board to answer the questions.

	į.								
I	2	3	4	5	6	7	8	9	10
II	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
IOI	102	103	104	105	106	107	108	109	IIO
III	II2	II3	114	II5	116	117	II8	II9	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	1 9 3	194	195	196	197	198	199	200



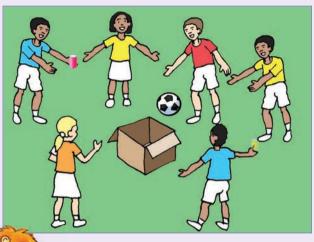
Use the 200 number board to complete the next four numbers in these number patterns. Then colour the pattern on the number board.

IO5, IIO, II5,,,	87, 90, 93,,,
36, 40, 44,,,,	184, 186, 188,,,,
70, 65, 60,,,	I38, I35, I32,,,,
I8O, I76, I72,,,	I4, I2, IO,,



Term

Balls, boxes and cylinders





Circle the boxes in blue, the balls in red and the cylinders in green.





Colour the correct answer.



The box

slides

rolls



The cylinder

slides

rolls



The ball

slides

rolls





curved edge

straight edge



curved edge

straight edge



curved edge straight edge



curved edge straight edge



curved edge straight edge



curved edge

straight edge



curved edge

straight edge



curved edge

straight edge



Say if the can is behind, in front of, next to or on top of the box.



behind

in front of

next to on top of



behind

in front of

next to

on top of



behind

next to

in front of

on top of



behind

in front of

next to

on top of

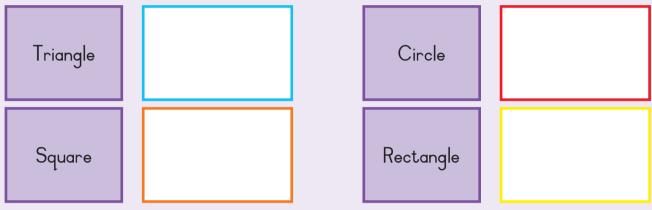


24





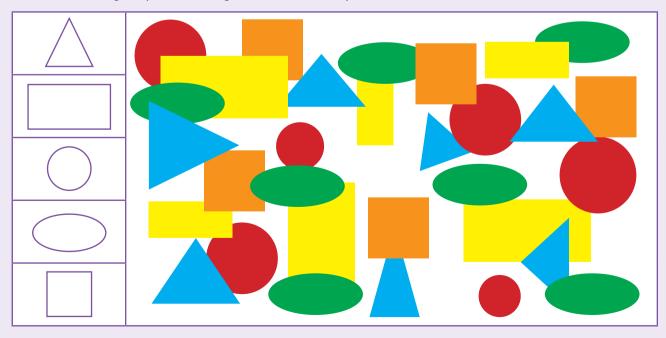
Draw, name and compare 2D shapes Draw the shapes.





Counting the shapes.

Count how many shapes like this you can find in the picture.



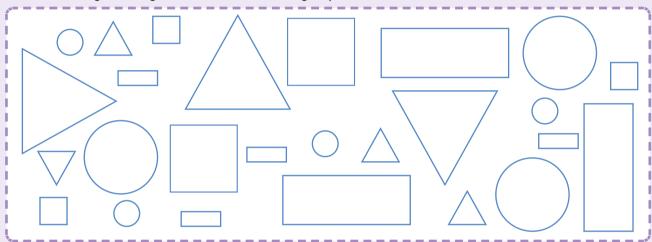


big circles red, small circles green;

big triangles blue, small triangles orange;

big squares yellow, small squares purple;

big rectangles brown, small rectangles pink.

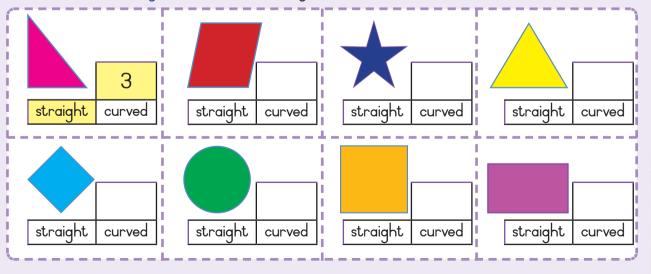




How many sides?

How many sides does each shape have? Write the number in the block.

We have done one for you. Are the sides straight or curved? Colour in the correct answer.



Date:



Time passes



Reading the time

What times do these watches show?









o'clock

o'clock

o'clock

___ o'clock



Jump around the clock

Help Minnie Mouse count the minutes in 5s. Start at the 12. Go all the way around.

How many minutes do you count?

How many minutes in I hour?





26

Writing the time

Draw the hands to show the times.



quarter past 6



half past 8



quarter to II



half past 5





Baking day Maria bakes bread.



The bread goes into the oven.



The bread comes out.



The bread bakes for _____ minutes.



Challenge

I can see a pattern.

In double time

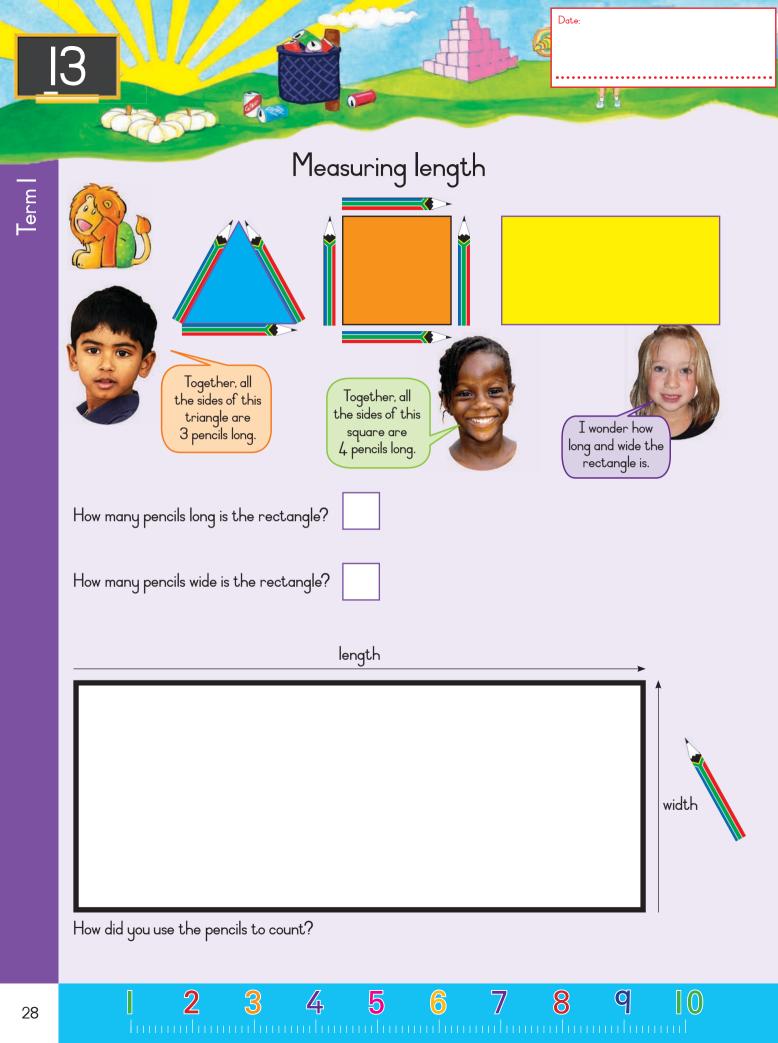
a. Change the hours to minutes.

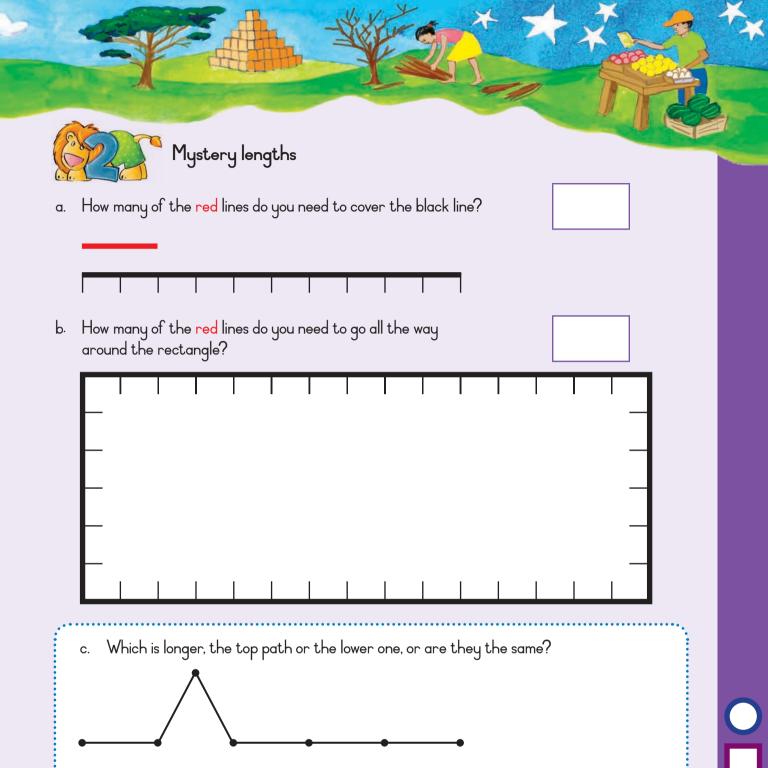
Hours	Hours I		4	8
Minutes	60			

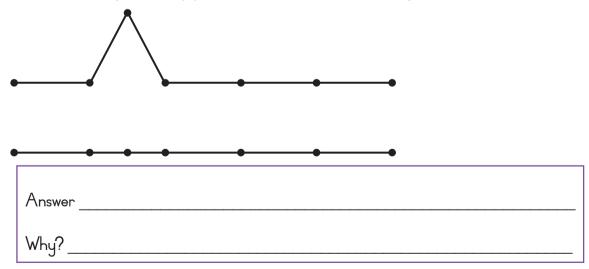
b. Mandla takes 45 minutes to get to school. Zander takes twice as long. How many hours does Zander take to get to school?

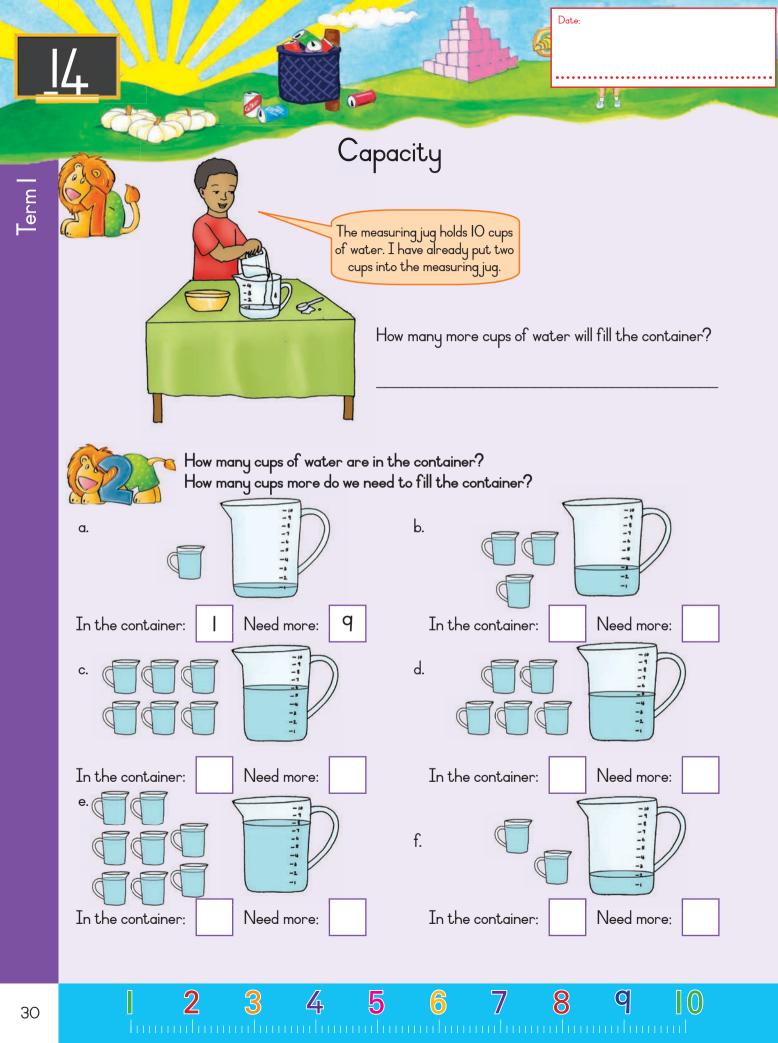














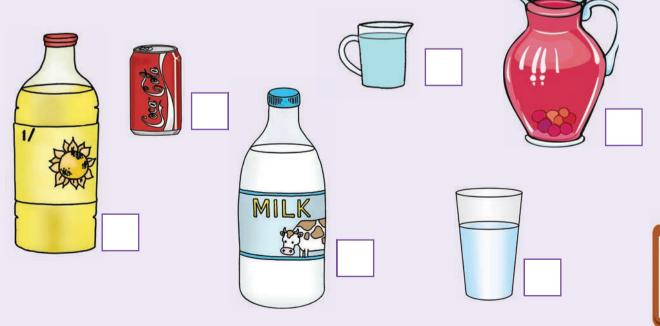
Write the intervals on this measuring jug. We have shown interval $5.\,$

If one cup fills the jug to the second interval, how many cups do you need to fill the jug to:

- 10



Tick which containers you think hold I litre of liquid.





Working with mass

_et's measure how heavy we are!

To find out how heavy or light we are, we use a scale.

We use kilograms to measure how heavy we are. We use this abbreviation: kq. Who weighs the most?





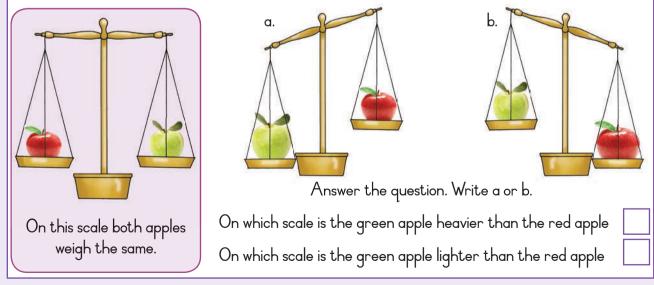




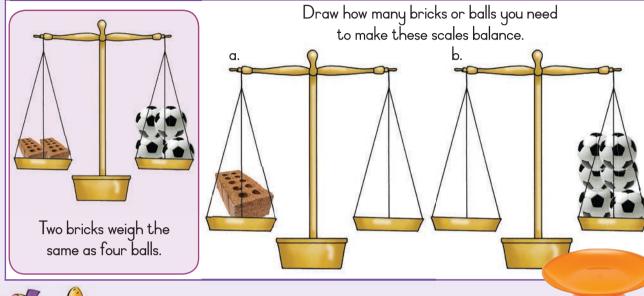


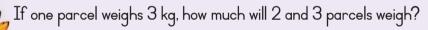


We use a balance scale to measure mass.





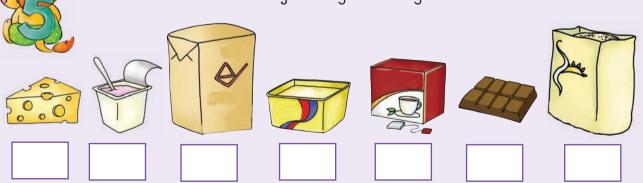




- a. 2 parcels ____kg
- b. 3 parcels ____kg
- c. Can I measure 4 parcels at the same time on this kitchen scale?______
 Why or why not?______



Tick in the answer blocks which objects weigh about I kg.





Thabo: Wow, Miss! Jack is a giant! He wears size 6 shoes!

Mrs Khoza: Well! Yes, Thabo, that is big for a nine year old!

What size shoe do you wear Thabo? What sizes do the rest of the class wear?

Date:

Let's do a survey!

The learners call out their sizes, one by one.

Mrs Khoza writes the sizes on the board.

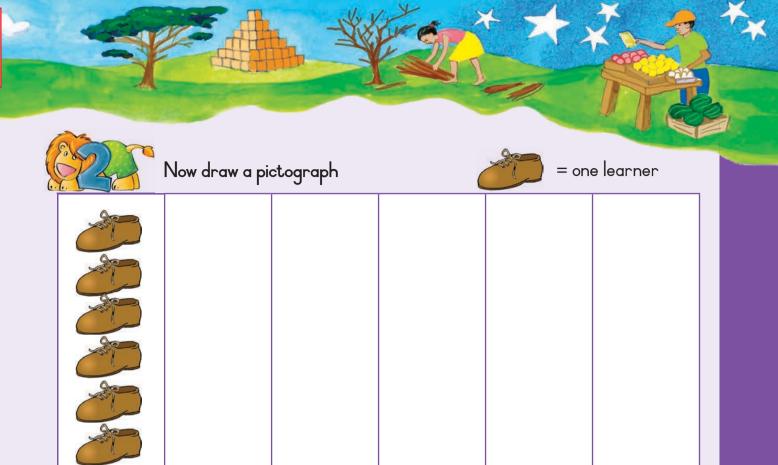
Mrs Khoza: Count, then write how many of each size.

	2 3									
	2									
1	-1	2	4	2	3	2	3	4	2	4
4	3	2	2	3		2	2		4	3

Fill in the table below.

Shoe sizes in the class							
Size I	Size 6						

4





Size I

Now answer these questions.

Size 2

a.	Most learn	ers wear	shoe size	·
----	------------	----------	-----------	---

Size 4

Size 3

b.	The fewest num		
h	The towest num	har waar size	2
D.	THE LEWEST HULL	DEL MEGL SIZE	-

C.	children took part in this survey
O .	or man or recent par o mi or no car vet



What about you?

Find out what shoe sizes you and your friends wear!

- Work in a group of 6 to 8.
- Collect your data.
- Write the number of shoe sizes in a table.
- Compare answers with other groups.



Size 5

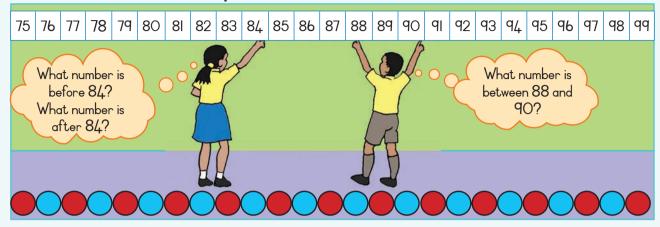
Size 6



36



Compare and order numbers





Fill in the missing numbers.

51					
			67		
71					
					100

Use the number board to answer the questions.

- Which number is before 68? ______
- Which number is after 68?
- Write down five numbers bigger than 71. ______, _____, _____, _____, _____
- What numbers are between 79 and 84?
- Write the numbers from the smallest to largest. 73, 52, 50, 59, 61
- \bullet Write the numbers from the largest to smallest. 74, 96, 99, 91, 38



	one more	one less	ten more	ten less
25				
39				
74				
56				
40				



Circle the biggest number.

78	87	17		36	63	33
----	----	----	--	----	----	----

Circle the smallest number.

qq	19	q		14	41	40
----	----	---	--	----	----	----



If \leq means smaller than, and \geq means bigger than, complete:

					_
32	<	64	23	>	18

Find 5 numbers in a newspaper between 50 and 99 and paste them in order from the smallest to the biggest.

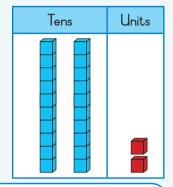


Showing numbers using objects

We can show numbers with place value blocks.

A small block stands for a l. It is a unit.

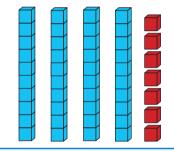
A rod of IO small blocks stands for a IO. It is a ten.



Date:

You can show a number using tens and units.

Here is how to show 47.



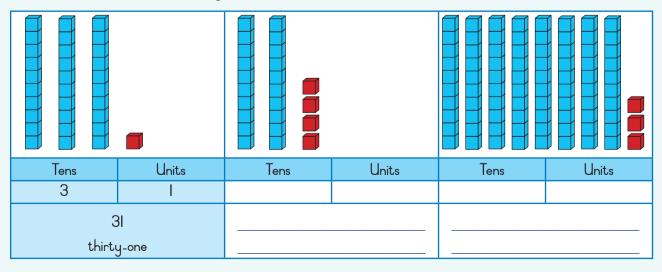
Tens	Units			
4	7			
forty-seven 47				



Writing numbers in digits and words

4

a. Under the picture, write how many tens and how many units.
 Then write the number in symbols and words.









b. We can also use our number cards to show it.

Number	How many tens?	How many units?	Write the number in words
26	2	6	twenty-six
46			
qq			



What is the number?

3 0 5	Tens Units
3 5	3 5 thirty-five 35
	Tens Units
	Tens Units

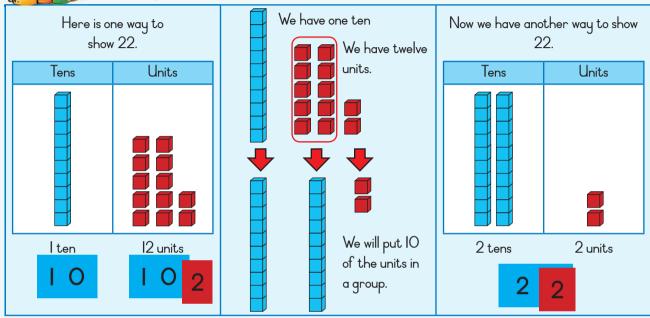




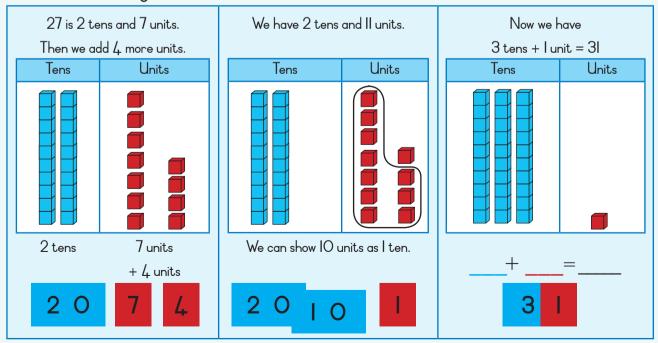
40

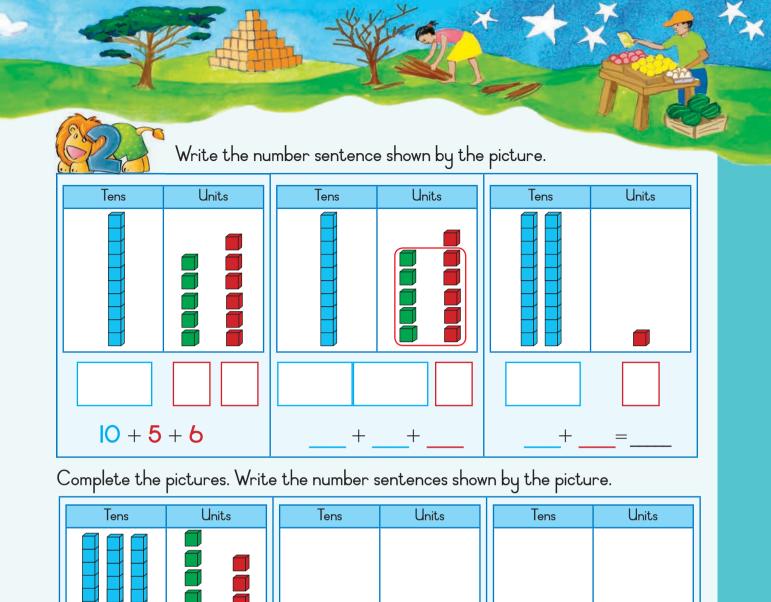


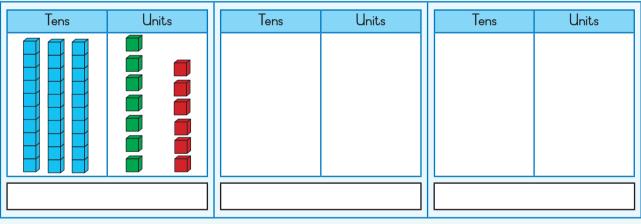
Putting tens together when we add to 99

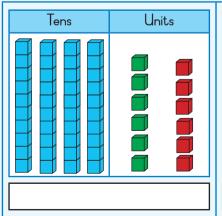


Let's add 27 + 4. The blue blocks are the units we start with and the red units are the units we are adding to them.









Tens	Units

Tens	Units







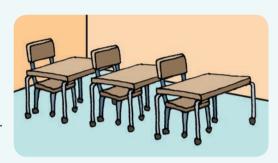
Add on a number line

Sit at your desk!

In our school each learner has their own desk.

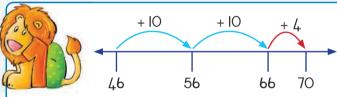
There are 46 learners in Grade 3A and 24 in Grade 3B.

How many desks do we need for both classes?



Working with a partner

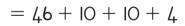
Look at how these three learners used a number line to solve the problem. Complete the sums using the example.



This is what I do: I first add IO. This brings me to $56.\,$

Then I jump another IO to get to 66.

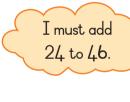
And lastly, I jump 4 more to land at 70.



$$= 56 + 10 + 4$$

$$= 66 + 4$$

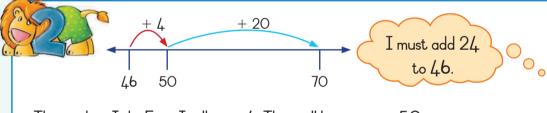
$$= 70$$

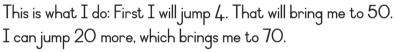






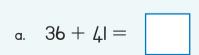








$$= 50 + 20$$



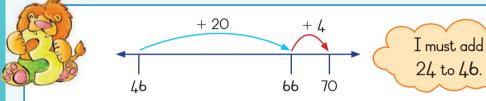


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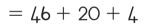
q

Add on a number line (continued)





This is what I do: From 46, I can jump 20. That brings me to 66. Now I have to jump 4 more and then I reach 70.



$$= 66 + 4$$





5

4





How many loaves?

The baker delivers 54 brown and 68 white loaves.





How many loaves altogether?

Find the total on a number line. Show the numbers and the size of the jumps.

0

150



Add the following without using a number line. Use any other method you like.



$$83 + 29 =$$















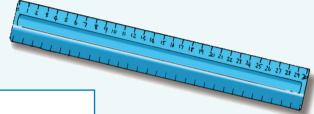


- Cabol aco off a flamber lift

One learner! One ruler!

The class needs 53 rulers. We have only 35.

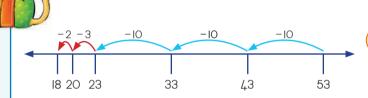
How many more do we need? 53 - 35 =



Date:

Working with a partner

Read how the same three learners use a number line here. Complete the sums using the example.



I have to subtract 35 from 53. Subtraction means to take away.

So, I will start at 53 and take away. I'll take away IO, IO, IO – that brings me to 23. Now to take away five. First I take away 3, and I come to 20. I take away 2 more and I get to I8. So we need I8 rulers.

$$= 53 - 10 - 10 - 10 - 3 - 2$$

$$= 43 - 10 - 10 - 3 - 2$$

$$= 33 - 10 - 3 - 2$$

$$= 23 - 3 - 2$$

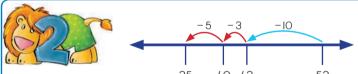
$$= 20 - 2$$

$$= 18$$







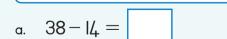


Subtraction means to find the difference between 53 and 35.

I'll start at 53 and count down to 35 to find the difference. If I count back by IO, I get to 43. I can count back 3 more to get to 40. Then I count down 5 more to get to 35.

IO plus 3 plus five is 18. So we need 18 more rulers.



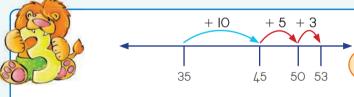












I can start at 35 and see how many jumps it takes me to count up to 53.

I can start at 35 and see how many jumps it takes me to count up to 53. Ten plus five plus three is 18. We need 18 more rulers.

4











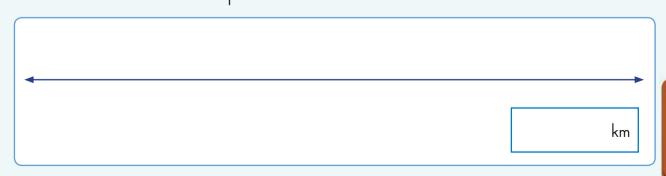
Going by taxi

The journey by taxi to town is $65\ \text{km}.$

So far the taxi has travelled $38\,\mathrm{km}.$

How much further to go?
Use the number line to solve this problem.









It's party time



First plan!

Busi asks all of her friends to give her a picture of their favourite party food. This is what she has collected. Help to sort it.



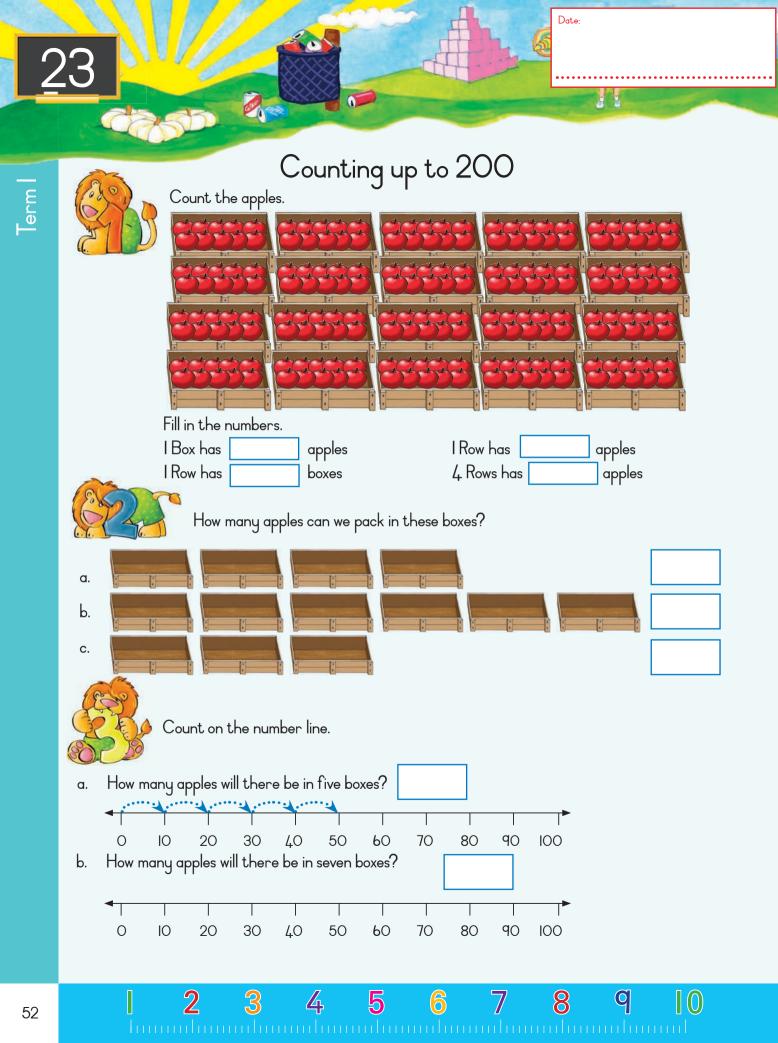
Count, and write how many friends choose each Kind of food.							
	Dead Lemonad						
Number							



Complete the pictograph. Use your table to help you. Draw one face (©) for each child that chooses that kind of food or drink.

(. <u> </u>		
☺		
☺		
☺		
☺		
©		
☺		
☺		
©		
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Cred Lemonad Resourced with an array of the		









5 Pairs of feet.

How many toes altogether?



or
$$10 \times 5 =$$

Do these in the same way.

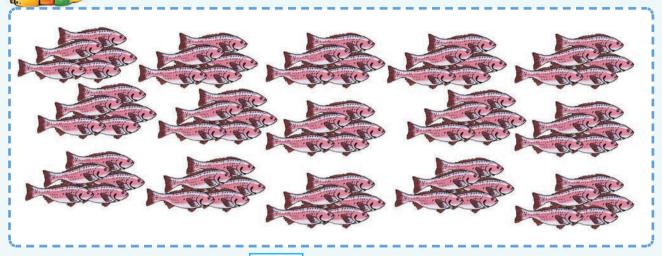


Count in IOs.

10, 20, 30, 40, 50, _____, ____, ____, ____, _____,

____, ___, ___, ___, ___, ___, ___, ___, 200

Date:



Now count the fish. Find the total.

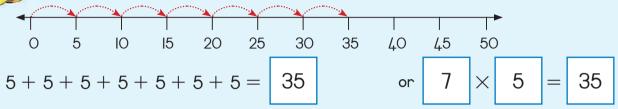


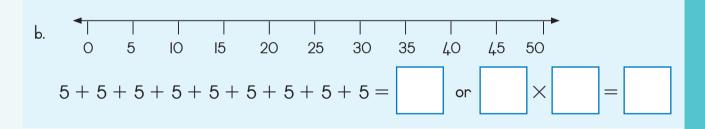
Counting in 5s

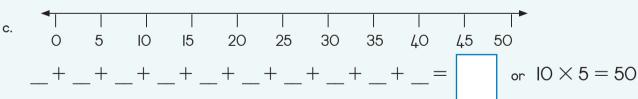
Find the total number of fish eggs. Write a \pm and \times number sentence. We have done the first one for you.

Fish and eggs	How many eggs altogether?						
5 fish, each lay 2 eggs	2+2+2+2+2=10	$5 \times 2 = 10$					
5 fish, each lay 10 eggs							
5 fish, each lay 4 eggs							
5 fish, each lay 3 eggs							
5 fish, each lay 6 eggs							
5 fish, each lay 8 eggs							
5 fish, each lay 5 eggs							











🥝 Catching fish

Sipho catches between 40 and 50 fish. He counts them in 2s and has I left over.

He counts them in 5s and has 2 left over. How many fish does Sipho catch?



Date:

Count in 2s



Counting the socks



- a. How many pairs of socks? _____
- b. How many socks are there?
- c. Are there any socks left over?

Write how many pairs of socks there are and say if there are any left over.

Socks	Number of pairs	Number of socks	Single socks left over



Building pairs

Write down the even and odd numbers from I-60.

- a. Write down the even numbers from I-60.
- 2, 4, 6,
- b. Write down the odd numbers from I-60.
- 3, 5, 7,

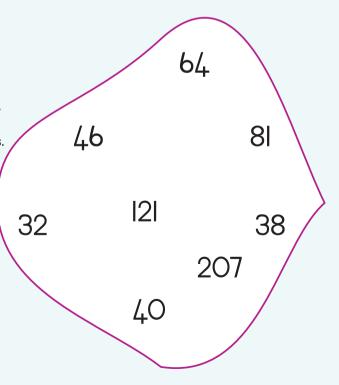


Odds and evens

4

Draw a circle around the even numbers.

Draw a square around the odd numbers.



Date:



Example:



$$2 \times I = 2$$

$$20 \text{ socks} = 10 \text{ pairs}$$

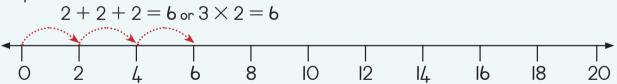
$$2 \times 10 = 20$$

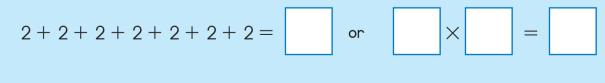
a. Write how many socks.

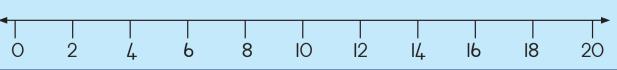
Think in 2s	Number sentence			
I pair = 2 socks	1 × 2 = 2			
2 pairs =socks	2 × 2 =			
4 pairs =socks				
8 pairs =socks				
9 pairs =socks				

b. Show the sum on the number line and complete.

Example:









Money then and now

Date:



The story of our money

In South Africa we use rands and cents as our money. We started to use rands and cents in 1961.

In those days the I cent coin had the lowest value, then the 2 cent coin and then the 5 cent coin.









Count the cents

Count the I cents.

How many cents are there?

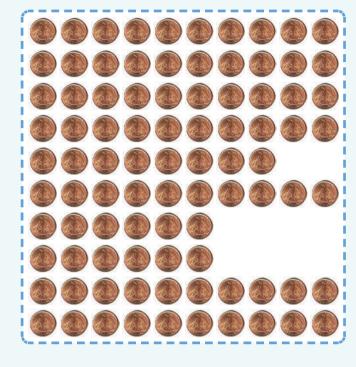
How many more cents do you need to make RI,00?

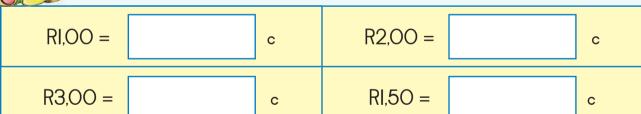


Draw them in the block.



How many cents?







How much fruit can I buy?



How many bananas for R20,00?





How many apples for R9,00?



Term

Count in 3s



Wheels in 3s



I tricycle has _____ wheels.







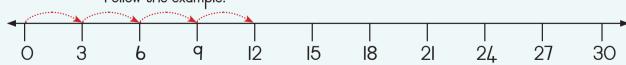




5 tricycles have wheels.	$3+3+3+3+3=5\times 3=$
2 tricycles have wheels.	$3 + 3 = 2 \times 3 = $
4 tricycles have wheels.	
6 tricycles have wheels.	
9 tricycles have wheels.	
8 tricycles have wheels.	

Number lines

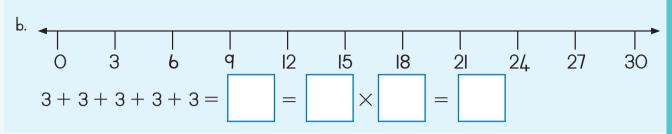
Follow the example.

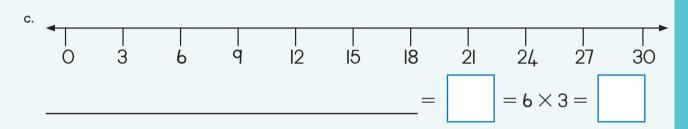


a.
$$3+3+3+3=$$
 = $4 \times 3 =$

4









At the cycle shop Busi counts bicycle and tricycle wheels.

There are 14 wheels altogether.

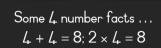
How many bicycles are there?

How many tricycles are there?_____





What comes in 4s?





Cows have four legs.

Four legs

What else comes in fours?



Counting the legs

Share answers. Explain what you did.

Date:

Use the facts you know about 4s to answer these questions.

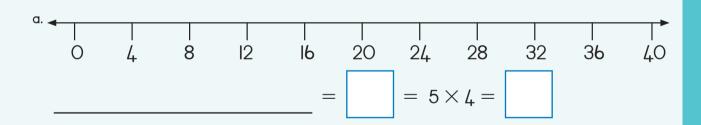
I cow legs	2 cows legs
3 cows legs	4 cows legs
5 cows legs	6 cows legs
7 cows legs	8 cows legs
9 cows legs	IO cows legs

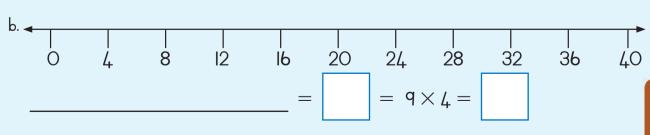


3 cows havelegs.	$4 + 4 + 4 = 3 \times 4 = 12$
5 cows havelegs.	
4 cows havelegs.	
7 cows havelegs.	
8 cows havelegs.	

Number lines

Show the multiplication sum on the number line and complete using jumps (hops).





Patterns in numbers

Grid patterns

Which number pattern do the circles in each 100 grid show?

Draw more circles to complete each pattern.

Write a name for each pattern.

Pattern: _____ a.

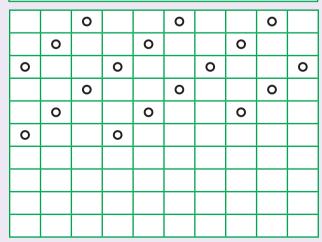
		0			0
		0			0
		0			0
		0			0
		0			0
		0			0

Pattern:

Date:

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	0	0

Pattern:



- Pattern: ____
- 0 0 0 0 0 0 0 0







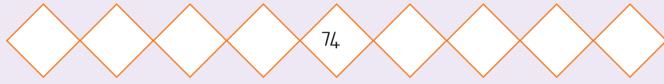




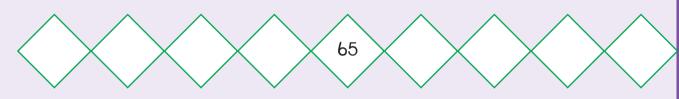




a. In this number pattern all the numbers are even. What can the other numbers be? Write them in.



b. In this number pattern the numbers are all odd. What can the other numbers be? Write them in.



Where do they belong?

10	32
48	3/
The same of the sa	





















The 3s and 4s pattern	The 3s and 5s pattern	The 4s and 5s pattern
e. g. 48		



At the sea

Thembi collects between 60 and 70 sea shells. When she counts them in 3s, she has I left over. The possible numbers are: 61, _____, 70, When she counts them in 5s, she has 4 left over.

The possible numbers are: _____, ____. How many shells does Thembi have?





Division



Share the sweets:



a. Share 30 sweets between 2 children.





We can write it as

$$30 \div 2 = 15$$

b. Share the sweets among 3 children.







c. Divide the sweets between 5 children.











÷ =



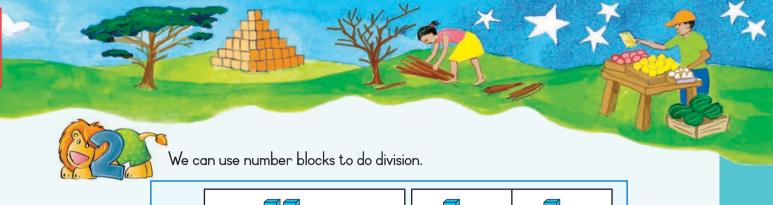


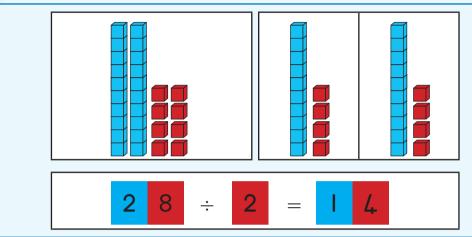




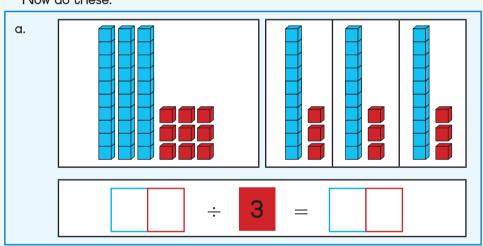


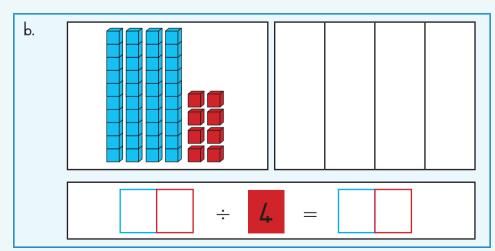






Now do these.



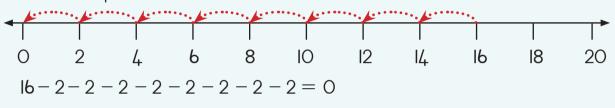




Date:

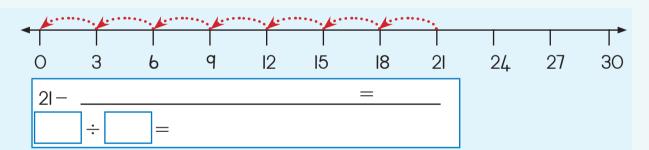
Use the number lines to write a subtraction and division number sentence.

Example:

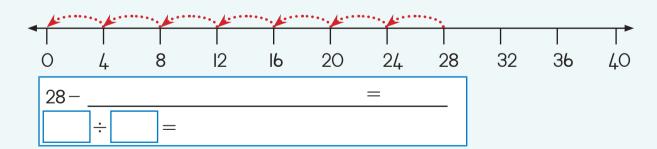


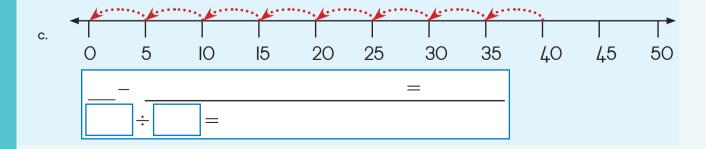
$$16 \div 2 = 8$$

a.



b.





8

q

4



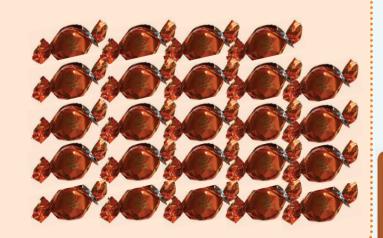


Draw a number line and solve the number sentences.



Challenge Show all the ways you can divide 24 sweets equally between different groups of children.

Write a number sentence to show your answer.

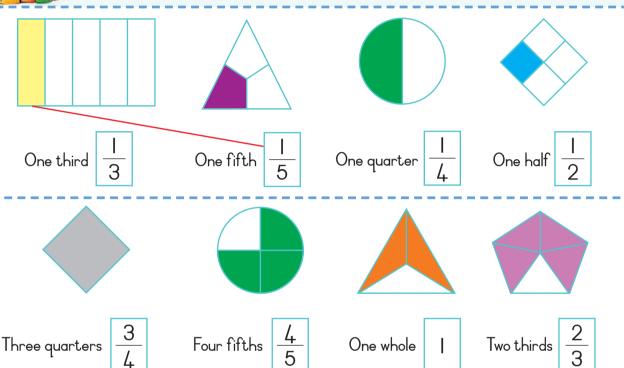




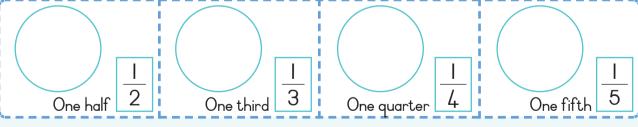
Fractions



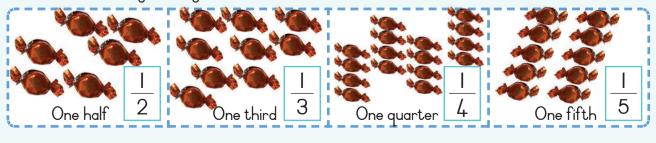
Draw lines to match the shape with the fraction



Divide and then colour the shape to show the fraction:



Show the fraction by drawing a line around the correct number of sweets:

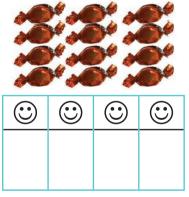


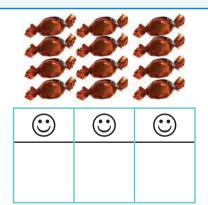


• We got $\frac{2}{2}$ counters • We got ____ • We got ____ • We got ____ counters each. counters each. counters each. each. _____of • Half of 4 counters of of counters is _____. counters is _____. counters is _____. is 2. $4 \div 2 = 2$



Share the sweets between the children.





- ullet one quarter of the sweets =3
- ullet two quarters of the sweets = $___$
- ullet three quarters of the sweets = $___$
- four quarters of the sweets = ____
- ullet one third of the sweets = $___$
- two thirds of the sweets = ____
- ullet three thirds of the sweets = $_{---}$



It's about time

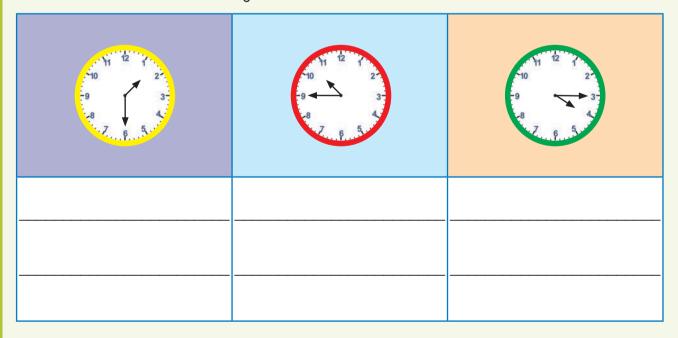


Clockwise

We can write the same time in different ways.

11 12 7 10 27 19 37 18 4 7 6 5	11 12 1 10 22 19 31 1-8 4 7 6 5	11 12 1 10 2 19 3 3- 4 7 6 5
2:15	5:30	9:45
quarter past two	half past five	quarter to ten

Write these times in 2 different ways.











Going home

How long does Ben take to get home?

minutes



hours



Ben leaves school.



Ben gets home.



Time flies

Time in 2s ...



How many ...

minutes in 2 hours?

hours in 2 days?

days in 2 weeks?

months in 2 years?



How many days?

April 27 is Freedom Day.

June 16 is Youth Day.

June 10 is Touch Day.



_____ whole weeks and _____ days.

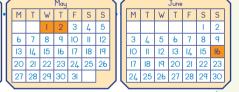
1	How manu	1.1	1 -	· IIO	
D.	now manu	ı wnole	weeks	ın alı 🖰	

How many days left over? _____. How many days in all? _____

c. Lebo's birthday is 7 days before Freedom Day.

Musa's birthday is two days after Youth Day.

Who is older? ______ By how many days? _____



Check. Compare. Correct.







Counting the numbers

Count and say all the numbers from IOI to 200.

Point as you go.





IOI	102							
Ш								
121								
131								
							149	
			154					
				165				
		173						180
181					186			
						198		200

Date:

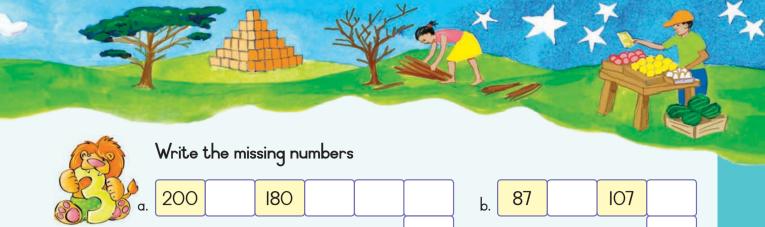


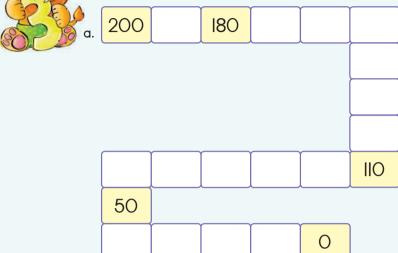
76

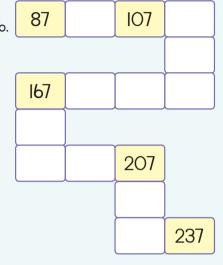
Writing the numbers

- Write the missing number in each blue square.
- Write in the rest of the numbers.
- Write the next 10 numbers after 200.

200									
200,	_'	_'	_'	_'	_'	_'	_'	_'	_'







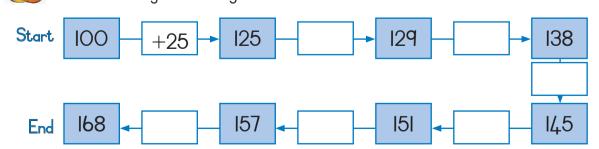


Complete



Counting on from 100

Work out what you need to get to the next number.





Working with groups of numbers

Date:



Packing candles

Ma Nkosi works at a candle factory.

When the candles are ready, she packs them out like this in boxes on racks.



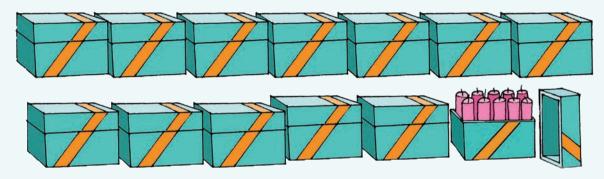
How many candles in each box?	
J	

How many boxes on each rack? _____

How many candles on each rack?



Ma Nkosi closes the boxes.



Count all the boxes.

How many boxes?
How many candles altogether?

How many more boxes does she need to fill to have 200 candles?

How many candles in:

2 boxes?0	4 boxes?0
5 boxes?0	3 boxes?0
6 boxes?0	7 boxes? 0

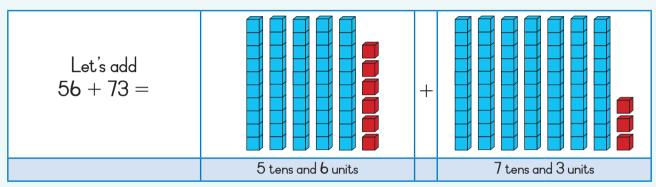
How many boxes does she need for:

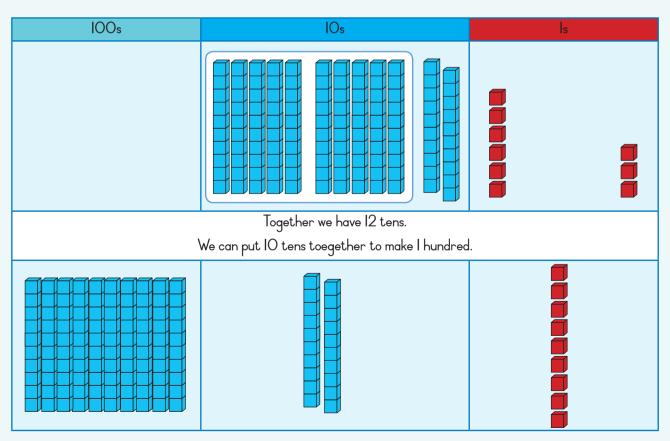
40 🖟boxes	70 0 boxes
50 🖟 boxes	30 0 boxes



Putting tens together and taking them apart

Putting tens together when we add.













Date:









Putting tens together and taking them apart (continued)

Date:

Use your place value blocks.

Use base ten blocks to	All together	Did you group tens or units?	Write the
make these two numbers.	how many tens?	Check the place value where	number.
	how many units?	you regrouped.	
23 + 99 =	tens units	tens + 2 units = O + 2	122
38 + 25 =	tens units		
77 + 3I =	tens units		
68 + 45 =	tens units		
83 + 47 =	tens units		



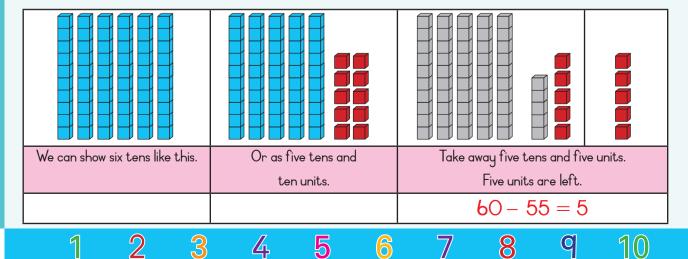
Taking tens apart when we subtract

When we subtract, we sometimes need to show one ten as ten units, or one hundred as 10 tens.

Let's subtract: 60 - 55 =

We start with six tens and no units. We want to subtract five tens and five units. (The units we are taking away we coloured grey.)

4





Let us try.

a. 70-28

7 tens	6 tens and 10 units	70 – 28 =	

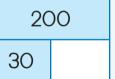
b. 90 – 46

c. 80-53

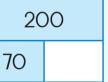


Finding the number pair

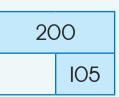
a.



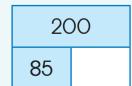
b.



c.



d.





84

A visit to the dentist



A group of children visit the dentist.

How many times a day do you brush your teeth?



This is what the children tell him.



✓	✓	✓	✓	✓	✓	✓	✓	✓					
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓									

a. Count the ticks (\checkmark) showing how often children brush their teeth. Write the numbers.

Once a day	
Twice a day	
Three times a day	

b. What can you see from the table?

Most of the children brush	a day.
There are	children in the group.







Do a survey in your class. Ask 15-20 learners.

- a. How many times a day they brush their teeth? ______
- b. Draw a pictograph like the one above to show your findings.





Date:

Add and combine



Writing out your sum

Busi can add units and tens and regroup them. She can add and subtract on paper, without blocks. Sometimes she likes to start with her number cards to show the numbers.

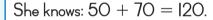
So for the sum 56 + 73, she finds these cards:



+

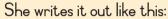


She adds the units and puts down the 9 card.



She takes the hundreds, the 20 and the 9 card to make a 3-digit number.





$$50 + 70 + 6 + 3$$

$$= 50 + 70 + 9$$

$$= 120 + 9$$

$$= 100 + 20 + 9$$

$$= 129$$



2 0



Dumi knows how the blocks work.

She does 56 + 73 like this:

$$50 + 6 + 70 + 3$$

$$120 + 9$$

$$= 129$$



Aakar likes to round off.

Here's how he does this one:

$$56 + 73$$

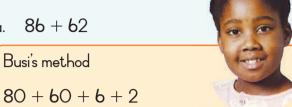
$$=50 + 70 + 10 - 1$$

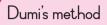
$$= 130 - 1 = 129$$

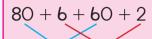






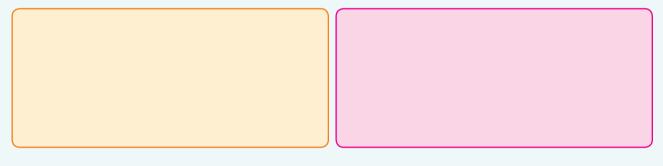




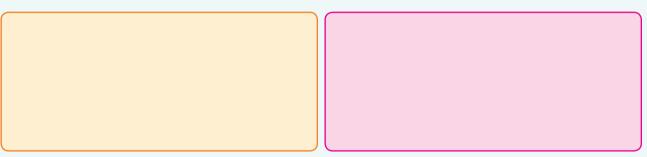




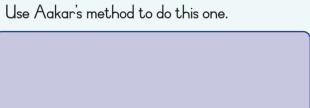
72 + 63



81 + 57



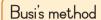
69 + 71





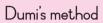
Now let's subtract.

87 - 53



$$80 - 50 + 7 - 3$$

$$= 30 + 4$$



$$80 + 7 - 50 + 3$$

Date:

$$= 30 + 4$$



95 - 73

86 - 62













Solve it!

There are many ways to add units and tens together. Choose the way you know and like best to solve these problems. Show your work.

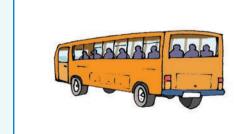
a. Peter first picks 34 peaches and then 67 peaches. How many peaches altogether?



b. The Malusi kids save R47 together.
Their mother gives them another R58. How much do they have now?



c. The school bus travels $88\,\mathrm{km}$ in the morning and $73\,\mathrm{km}$ in the afternoon. How many km altogether?





Solve it!



Bottle tops

Use any method you like. Show your work.



Sipho counts out 87 bottle tops. Andile counts out 38.

How many more bottle tops does Sipho count than Andile?



The school concert



Musa

90



Musa sells tickets. He had 92 tickets to begin with. He has 67 left.

How many tickets has Musa sold so far?

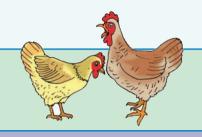




More practice



There are 69 chickens in one pen and 95 in another. How many chickens are there altogether? Read how Guqu and Aakar solve the problem.



Guqu's way

$$60 + 90 + 9 + 5$$

$$= 100 + 50 + 14$$

$$= 150 + 10 + 4$$

= 164



Aakar's way

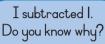
$$69 + 95$$

$$= 70 + 95 - 1$$

$$= 70 + 90 + 5 - 1$$

$$= 160 + 4$$

$$= 164$$





a. The boys collect R96 for a class trip. The girls collect R79. How much do they collect altogether?

Use Gugu's way

Use Aakar's way

b. One school collects 76 kg of cans. Another school collects 68 kg cans. How many kg of cans do the two schools collect altogether?

Use Guqu's way

Use Aakar's way





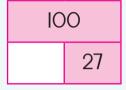
Count and calculate



Finding the part

Write in the missing numbers.

a.



b.

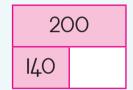
100					
39					

c.

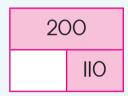
100					
43					

d.

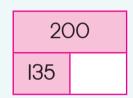
e.



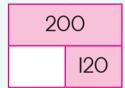
f.



g.



h.

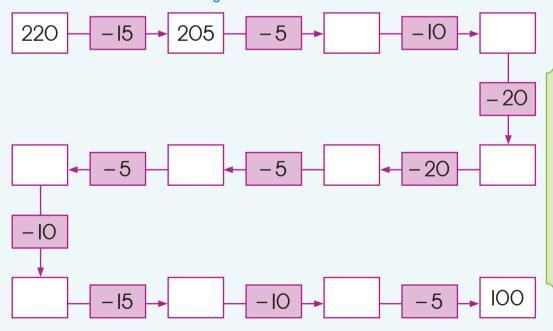




Subtracting back from 220 to 100

Subtract the numbers in the pink box each time.

We have done the first one for you.



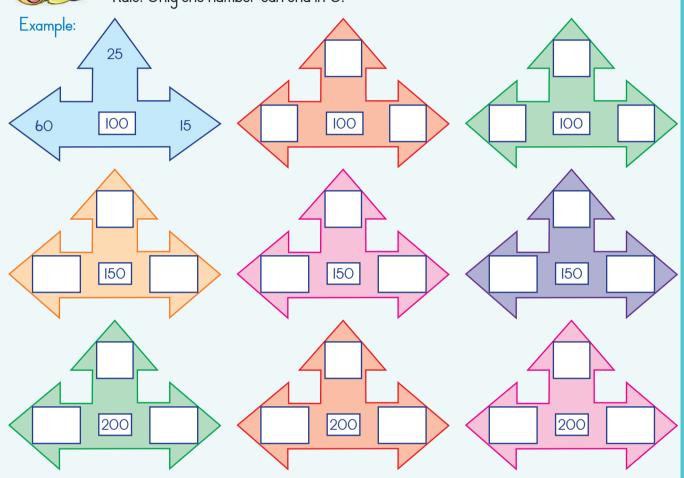
Here is a way to check your answers.

Start at IOO. Work back to 220.

But this time, add the numbers.



Find 3 numbers that add up to the target number. Rule: Only one number can end in O.





50 more and 50 less

Write the answers in the 2nd row.

	70	125	150	81	96	122	134	Ш	70
+50	120								
	186	200	158	179	139	79	126	138	qq
-50	100	200	100	17 1	10 1	, ,	120	100	' '



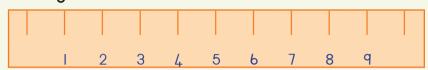
11 12 **13** 14 **15 16 17 18** 19 20



Measuring in centimetres



How big is a centimetre?



The numbers on the ruler stand for centimetres.

We use the abbreviation or symbol cm.

When you use a ruler, you must start to measure from O.

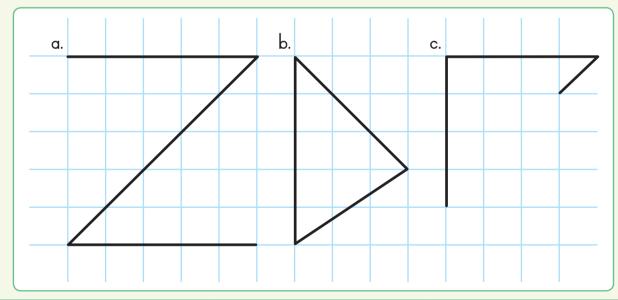
Some rulers do not show the O like the one on this page.

Find zero cm on the ruler. Write O on the ruler.

Where is 10 cm on this ruler? Write 10 there.



Estimate, then measure accurately with your ruler, the length in cm of the line making each shape.



a. Estimate cm	b. Estimate cm	c. Estimate cm
Measure	Measure	Measure cm









How long is each line?

How many cm long is each line?

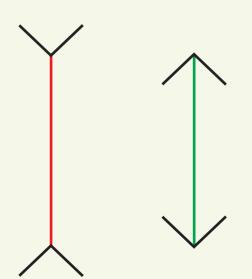
a cm	d. cm
b cm	ecm
c. — cm	f. cm

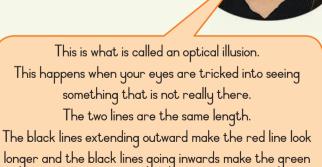


Are you sure?

Which is longer, the red line or the green line?

How can you check?





line look shorter.







96



vaue:

Target 300



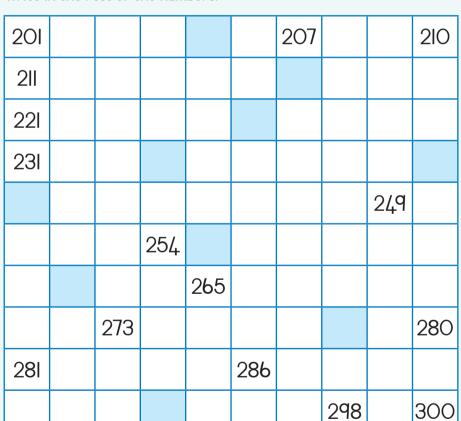
Counting and writing the 200s

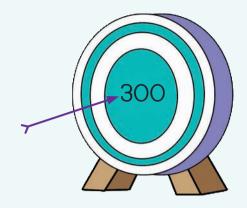
Count from 201 to 300.

Point as you go.

Then fill in the blue numbers first.

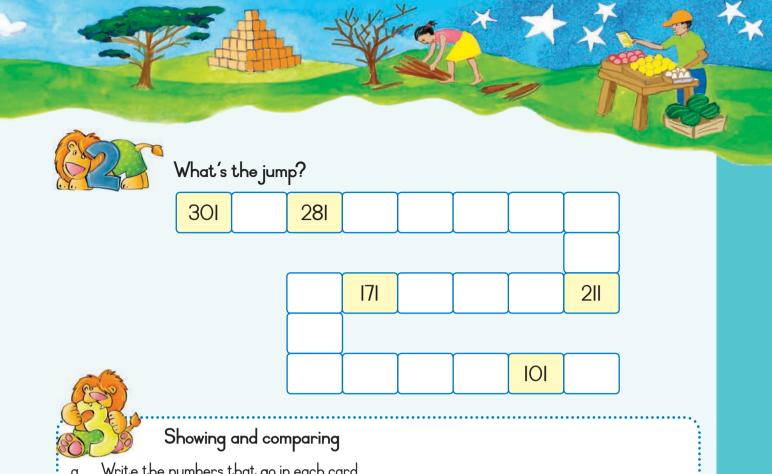
Write in the rest of the numbers.



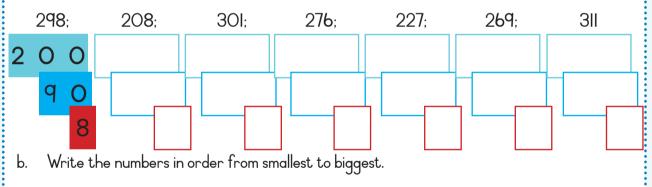




Write the next 10 numbers after 300.

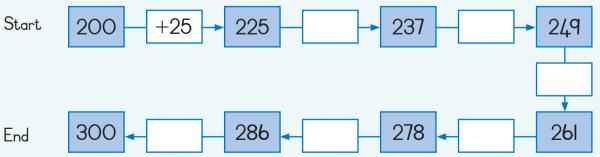


Write the numbers that go in each card.



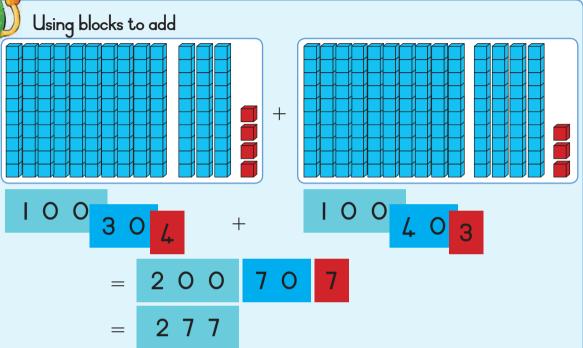


Write the missing numbers.





Adding and subtracting with 100s





Follow the two methods. Show each answer in two ways.

132 + 123



$$= 100 + 100 + 30 + 20 + 2 + 3$$

$$= 200 + 50 + 5$$

$$= 255$$

$$|32 + 123|$$

$$= 200 + 50 + 5$$

$$= 255$$

Dumi's method

b.
$$114 + 162$$









Date:







c. 276 + 148





Study each method. Work out each sum in two ways.

a. 158 – 146

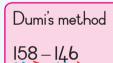


Busi's method

$$= 100 - 100 + 50 - 40 + 8 - 6$$

$$= 0 + 10 + 2$$

= 12





= 12





c. 288 – 199



Target 400

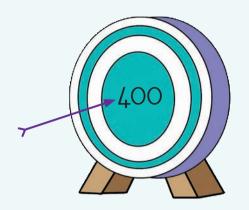


Counting and writing the 400s

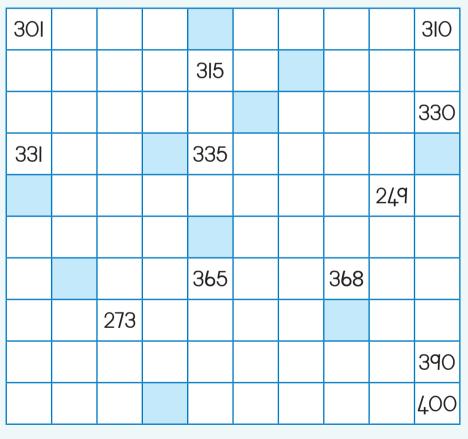
Count on from 300 to 400.

Say the numbers as you go.

Write the missing numbers on the grid.



Date:





Write the next 9 numbers after 400.

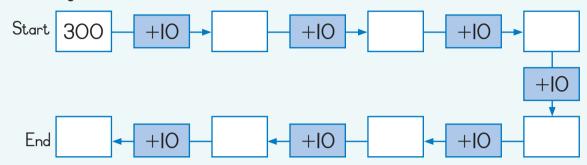
4



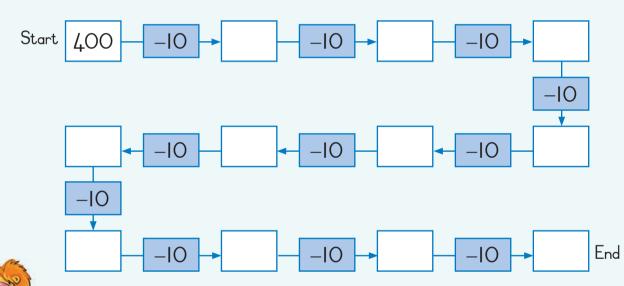


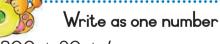
Count forwards and backwards

Counting forward from 300 in tens.



Count back from 400 in tens.





$$300 + 80 + I =$$

$$300 + 80 + I =$$

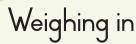
$$300 + 90 + 9 =$$

$$300 + 40 + 8 =$$

Write the answers in order from smallest to biggest.



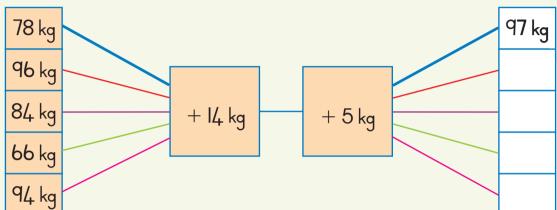






Add some kilograms.

Add and write the answers.

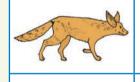






Rounding off and adding!

Think smart!









Jackal 25 kg

Tortoise 98 kg

Baboon 59 kg

Baby zebra 88 kg

Pelican 9 kq

Round off the mass of each animal to the nearest 10 kg.

Write the mass of each animal in order from light to heavy.

Estimate the total mass of the 5 animals.

Estimate the total mass of the 3 animals















Combine their mass



I may not be as heavy as you, old Tortoise, but I sure am faster!



Steps

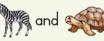
- Use your rounded off amounts to estimate.
- Estimate the mass of the animals in each row.
- Calculate the totals using the actual mass.
- Compare the two totals and write the difference.

	I estimate	I calculate	The difference
+			
+ + + +			
+ + + + + + + + + + + + + + + + + + + +			



Check. Compare. Correct.

Vusi adds his own mass to the mass of and and .



Their total mass is 239 kg. How much does Vusi weigh? Show you answer.

A Parties	What's my weight?	
V	Play in a group. Take turns	



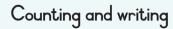
Add your mass to the mass of some of the animals. Work out the total. Tell the answer to the group. Don't show them your work! They must then try and work out your mass.



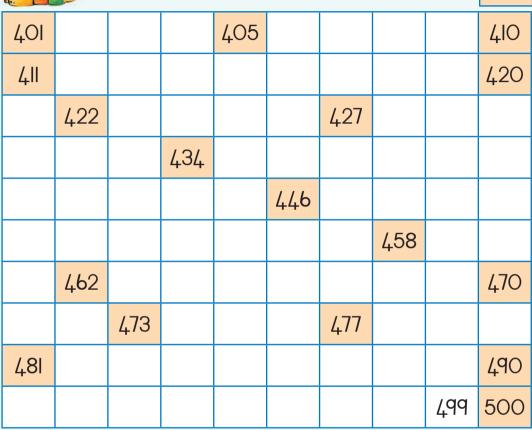
104



Target 500







- a. Count on from 400. Say the numbers as you go.
- b. Write the missing numbers in the grid.
- c. Write the next 9 numbers after 500.

500;	;	;	;	;	;	;	;	;	
------	---	---	---	---	---	---	---	---	--

d. Count in 2s. Write the next 8 numbers in the 2s pattern.

400; 402;							
400,402,	,	,	,	,	,	,	

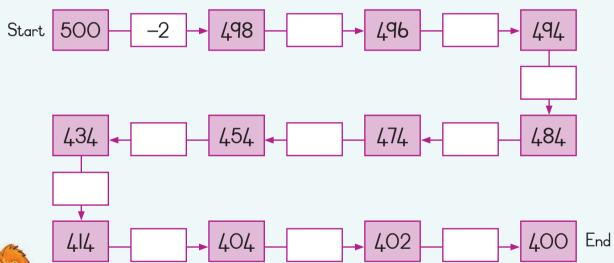
e. Count in 5s. Write the next 8 numbers in the 5s pattern.





a. Add forward from 400.

b. Count back from 500.





Showing the numbers. Follow the example.

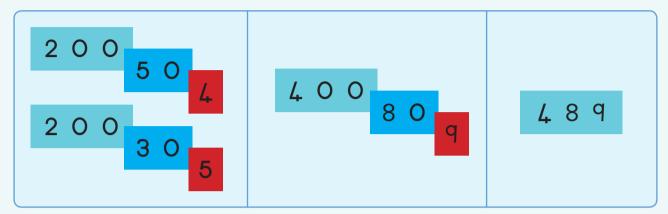
Find the totals. Use your number cards to show each total.

405 + IO	415	400 + 10 + 5
446 + 10		
455 + IO		

398 + IO	
424 + 10	
460 + 20	



More adding and subtracting





You are going to use Busi's and Dumi's methods again to add.

a. 245 + 231

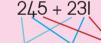


$$= 200 + 200 + 40 + 30 + 5 + 1$$

$$=400+70+6$$

= 476

Dumi's method



$$=400+70+6$$

= 476

c. 265 + 148







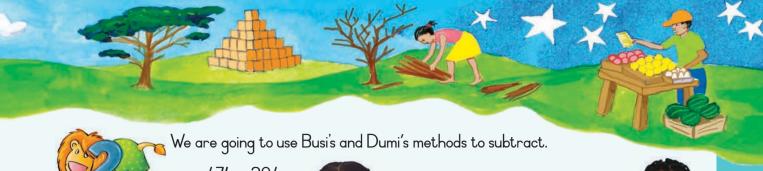












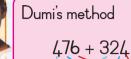
476 - 324

Busi's method

$$= 400 - 300 + 70 - 20 + 6 - 4$$

$$= 100 + 50 + 2$$

= 152



= 100 + 50 + 2

= 152



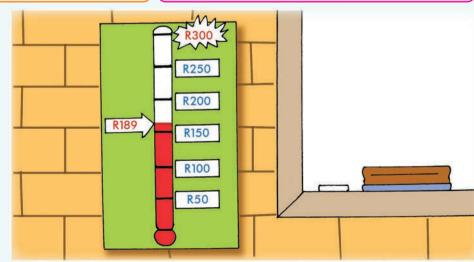
482 – 161







Reaching the target



Study the picture.

How much more to reach the target?

R



Date:

Secret mountain

What's the name of the highest mountain in Gauteng? Use the code to find out. Match each answer in the table to a letter in the code.

Α	В	С	D	Ε	F	G	Н	I	J	K	L	М
I	2	3	4	5	6	7	8	q	10	- II	12	13
Ν	0	Р	Q	R	S	T	U	V	W	Χ	Υ	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

Number clues	Answer	Letter
Example: $2 \times 3 \times 3 \times I = \square$	l8	R
$50 + 50 + 50 + 100 - 200 - 45 = \square$		
$I + 2 + 7 + IO + 7 + I - I4 = \square$		
60-30+50+20-50-15-20=		
$3+2+7+1+2+1+3=\square$		
$5 + 3 + 30 = 4 + 2 + 12 + \square$		
$100 - 5 - 70 = 20 + \square$		
$36 + 44 - 60 - 2 = \square$		
IO + I5 = I4 +		
$2 + 1 + 14 + 9 + 14 = 25 + \square$		
$I \times 2 \times 2 \times 2 \times 2 = \square$		

4

The mountain's name is





Look, think and answer!

1 2 3 4 5 6 7 8 9 10 II 12 13 14 15

What shape will number 16 be? Tick (\checkmark) the right one.

* • (

What shape will number 18 be? Tick (\checkmark) the right one.

* • (

What shape will number 23 be? Tick(\checkmark) the right one.

* 0 (

b. Number 50 will be a **.

True or False?

Number 100 will be a •.

True or False?

Number 28 will be a **(**.

True or False?



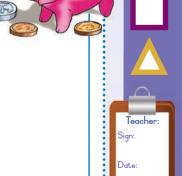
Check. Compare. Correct.

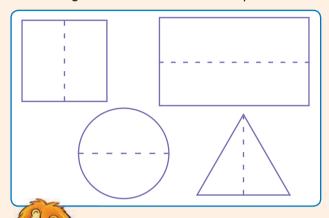
Which is more?

To get R2,50 a day pocket money for June and July.

Or to get RI50 total pocket money for the two months?

Show how you worked it out.





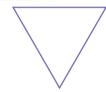
A line of symmetry divides a shape into two halves so that each half is a mirror-image of the other.

Date:

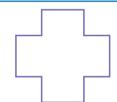
A shape has symmetry if you can fold it along the line of symmetry so that the two halves match exactly.



Draw a line of symmetry for each shape.

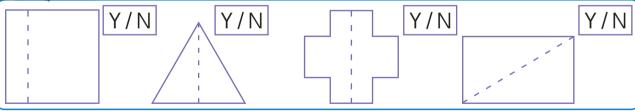






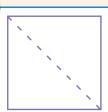


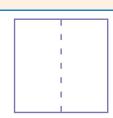
Is the dotted line a line of symmetry or not. Circle the (Y) Yes or (N) No.

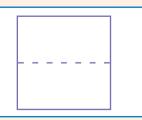




Is this a line of symmetry? Why?



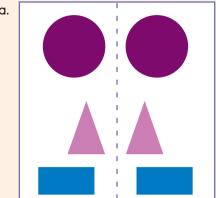




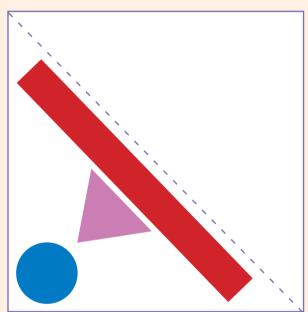


Draw shapes to make the picture symmetrical.

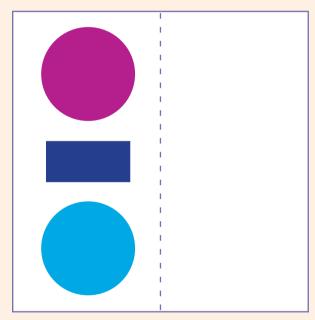
We have done the first one for you.



b.



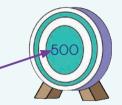
c.



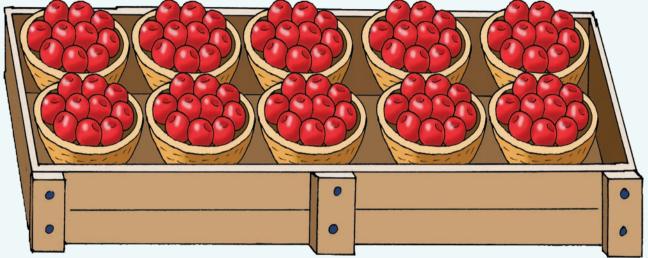


Create your own symmetrical carpet using shapes.





Date:



Complete and multiply

I basket holds apples.	$I \times IO = IO$
3 baskets hold apples.	$3 \times 10 =$
5 baskets holdapples.	
4 baskets holdapples.	
2 baskets hold apples.	
2 baskets hold apples.	

I crate holds 100 apples.		2 crates hold	_apples.
3 crates hold	_apples.	4 crates hold	_apples.
5 crates hold	_apples.	2 half crates hold	apples.



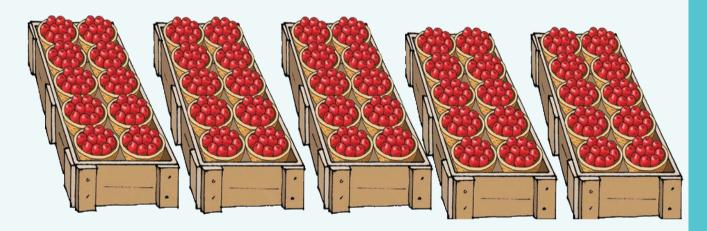








1.	
There are	_baskets in one crate.
There are	_apples in one crate.
How many apples are there a	together?

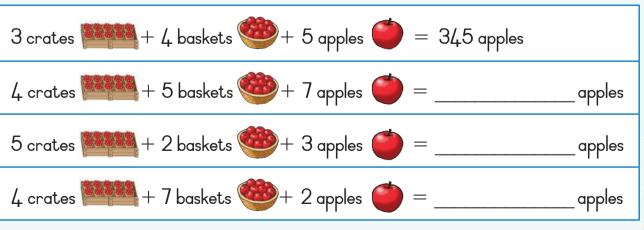




Calculating, showing and writing

300 40 5

First use number cards to show each total. Then write in the number.







Multiplication and division (IO)



Counting the apples.

Fill in the table.

How many baskets hold the apples?



Apples 🍎	Ю	20	30	40	50
Baskets	I	2			
÷ sum					50 ÷ IO = 5
× sum					5 × IO = 50

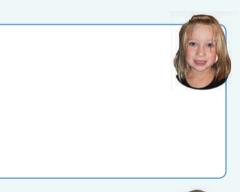


Divide the apples between the children. Make a drawing.
Write a division and multiplication sum to check your answer.

a.









Check you answers

÷ = =













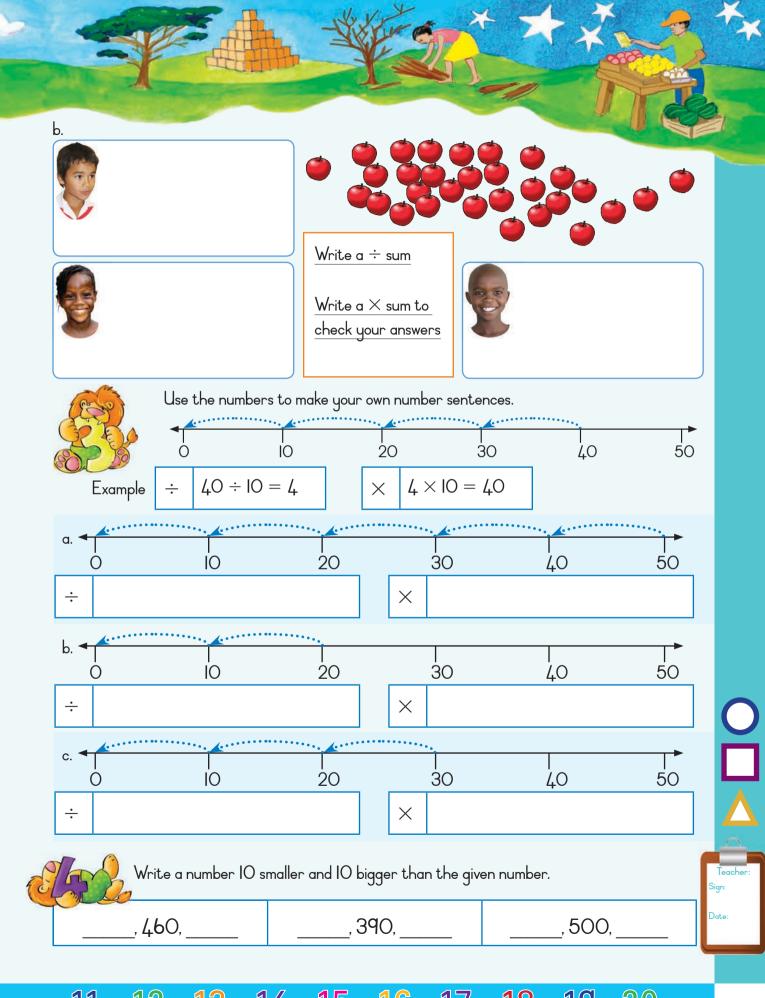












Date:

erm 2

Count in 2s

Counting forwards and backwards in 2s

a.	232; 234;	;	;	<u> </u>	242;	_;;	248



Pairs of gloves



- a. How many pairs of gloves in one row?
- b. How many single gloves in one row?
- c. How many rows? ____
- d. How many gloves altogether?
- e. Show how you work it out.
- f. Write your answer as a number sentence.













Write in the tables.

a.	Pair of gloves	-	IO	5	50	4	40	3	30	100
	Number of gloves	2								

b.	Single gloves	20	21	70	73
	Pairs that can be made				
	Single gloves left over				



Count in twos

Which number comes in between?

26/	391, , 395	414410
204,, 200	· · · · · · · · · · · · · · · · · · ·	T'T', T' T'

Write the next two numbers.

3/3,3/5, <u>3//</u> , <u>3/9</u>	373, 375, <u>377</u> , <u>379</u>	480, 482,,	262, 264,,
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Write the next two numbers.

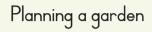
346, 348,, 415, 417,, 297, 299,,





Term 2

Pave with tiles



Mrs Mabena has some pretty tiles.

She uses them to pave an area in her garden.

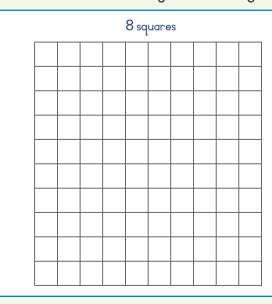
There are $\boldsymbol{6}$ square tiles of the same size.

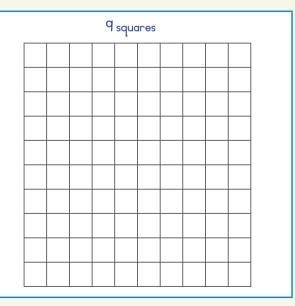


I can make I row with 6 tiles.	I can make 2 rows with 3 tiles in a row.	I can make 3 rows with 2 tiles in each row.
6 × I = 6	$3 \times 2 = 6$	$2 \times 3 = 6$

Now it's your turn!

Shade blocks to show how you can arrange 8 and 9 square tiles.





Write number sentences for each drawing.









Arrange 12 tiles

Thabo has I2 square tiles to pave next to the house. Help him find all the ways he can do this.

Write a number sentence for each way.

Example:	$1 \times 12 = 12$ $12 \times 1 = 12$



Arrange 24 tiles

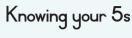
- Use the grid in Cut-out sheet 2.
- Shade 24 blocks in different ways.
- Write number sentences to match each drawing.



I can multiply!

12 = 2 ×	3 × = 12	9 = ×3
6 = 3 ×	\times 3 = I2	24 = 3 ×





Fill in the answers.											
		I	2	3	4	5	6	7	8	q	Ю
	×5	5									



Counting the candles



- How many candles in each box? a.
- How many boxes in each row? _ b.
- How many candles in each row? C.
- How many candles altogether? d.

Showing the answer

Tick (\checkmark) the number sentences that show the total number of candles.

a.
$$5 \times 3 \times 3 = \boxed{}$$
 b. $15 \times 3 = \boxed{}$ c. $3 \times 5 \times 5 = \boxed{}$ d. $15 \times 5 = \boxed{}$









Date:





Counting forwards and backwards in 5s

- a. 85; _____; ___; 70; _____; ___; 55; ____; ___
- b. 240; _____; ____; 255; _____; ____; ____; 280
- c. 405; _____; 395; _____; 380; _____; 365; ___

•



Collecting R5 coins

The children collect R5 coins. How many R5 coins do they need to collect to have R $__$ ʻ We have done the first two for you.

R5 ÷ R5 = 1 coin	RIO ÷ R5 = 2 coins	RI5?	R2O?	R25?
R30?	R35?	R40?	R45?	R5O?

$$2 \times R5 = R$$

$$4 \times R5 = R$$

Do you see the pattern?

$$3 \times R5 = R$$

$$6 \times R5 = R$$



Multiplying by 5s

Example:
$$I \times 5 = 5$$
; $II \times 5 = 55$; $2I \times 5 = IO5$

Think smart! Build on facts you know!

I	2	3	4	5	6	7	8	q	Ю
5	Ю								
II	12	13	14	15	16	17	18	19	20
55									



Working with time



	10 12 7 2 1-8 3-1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	06:4
E.S.	0, 1, 12 7, 10 2, 10 3,	6:15
	10 1 12 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	12:45
S S	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Quarter past 12
Drawing the times	10 1 12 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	Quarter to eleven
	2 2 3	Half ast 5

Time problem

Nomsa's mom leaves home at 2:30. She comes back at 5:15. How long is she out for?

Put your finger on 2:30, the time it is now. Then you just have

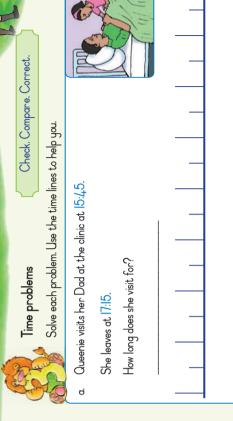
 $\frac{1}{4}$ **hour** more to get to jump to 5:15.

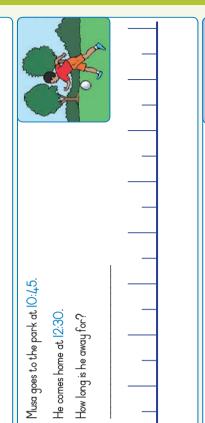
Jumping forward another **whole hour** will bring you to 5:00.

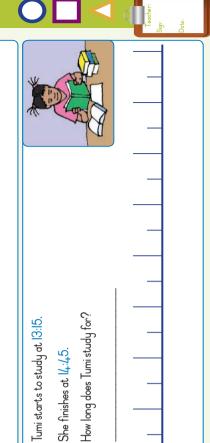
Then when you jump forward one **whole hour** more, it will be 4:00.

If you jump forward $\frac{1}{2}$ hour it will be 3:00.

We can use a time line to work it out.







215 230 245 3:00 315 3:30 345 4:00 4:15 4:30 4:45 5:00 5:15 5:30 5:45 6:00

4 hour

2 hour

 $\frac{1}{2}$ hour plus two whole hours make $2\frac{1}{2}$ hours.

Plus $\frac{1}{4}$ hour more makes $2\frac{3}{4}$ hours in all.

00

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4

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122

Count in 3s and 4s



Pots with 3 legs



C	I low many pous in a row?	

How many legs in a row?

_<u>.</u>

How many rows of pots?

ပ

How many legs altogether? Show how you work it out. ö

Tick (\checkmark) which number sentences below show the total.

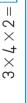


How many legs?

ന

l pot





 $2I \times 3 =$



legs

5 pots	12 pots	14 pots
legs	legs	legs
10 pots	15 pots	13 pots
နှင့်	sbe	s ge

egs

legs

0

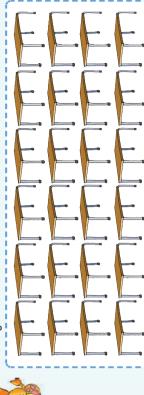
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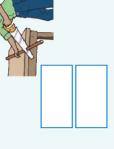


- How many tables in a row?
- How many legs in a row?
- c. How many rows of tables?
- d. How many legs altogether? Show how you work it out.



He has made $4.8\,\mathrm{so}$ far. How many tables can he make? A carpenter makes tables. He first makes the legs.





Complete the grid by filling in the answers

12		
=		
01		
00		
5		
7		
3		
2	9	∞
	×3	7×

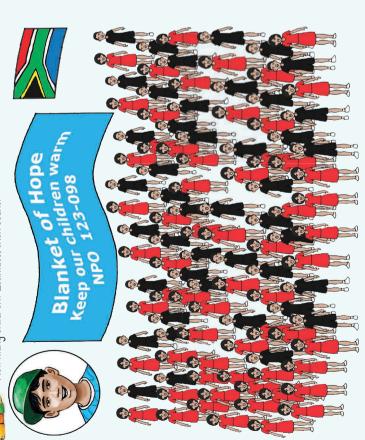
125

5 pots

2 pots

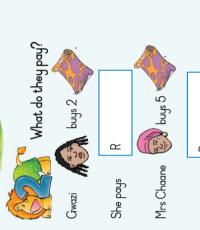
One child, one blanket!

How many children? Estimate, then count.

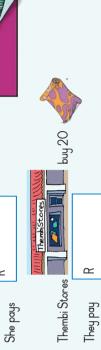


olanket. 	Compare	
All the children in the picture get a blanket How many children are there?	Count	
All the How	Estimate	

🥶 airls?
How manu are © airls
How manu are © bous?







10 Ser R50 = R500	15 Fee for R50 = R	6 For R50 = R	12 Fer R50 = R	q for R50 = R	
5 for R50 = R250	4 for R50 = R	3 for R50 = R	7 for R50 = R	8 for R50 = R	



The grade 3 class collects money to buy 4 blankets.

They collect R5 a day for 5 days a week.

How many weeks do they need to collect money for the blankets?



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00

0

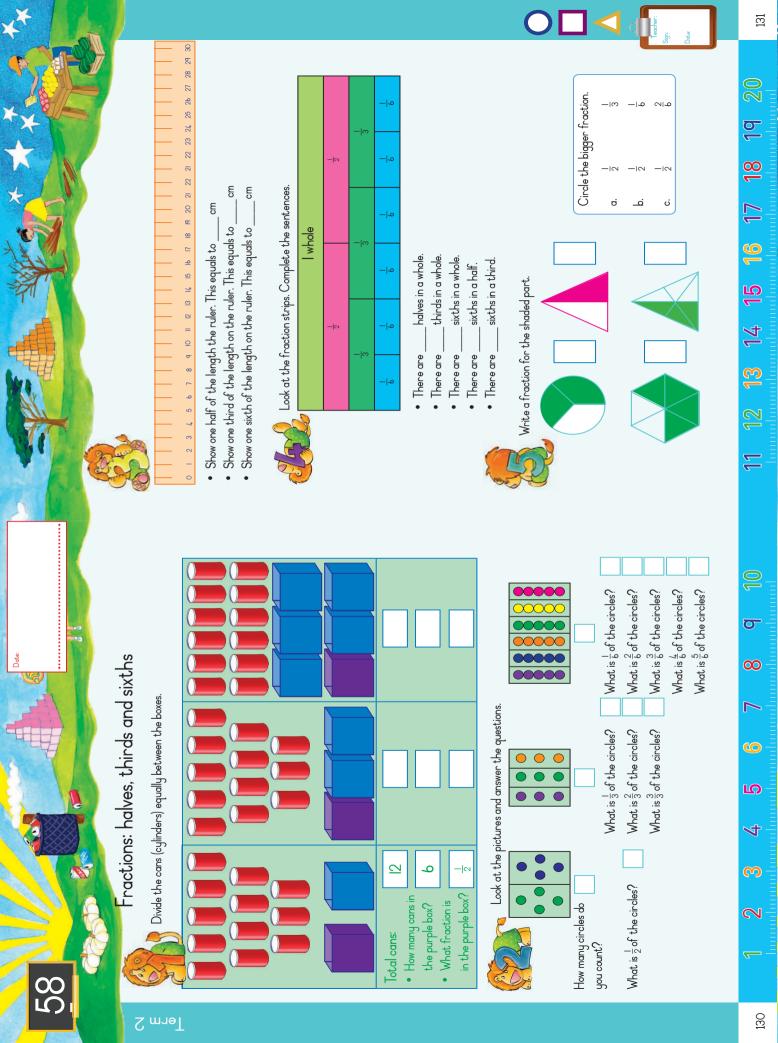
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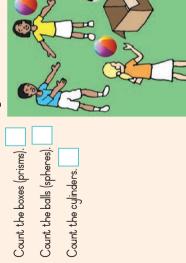
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129







These are all boxes.

Use Cut-out sheets 3 and 4 to make them.



Each flat surface is called a face. Stick or draw one smiley on each face of the boxes.

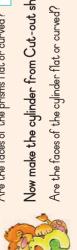
How many faces did you stick on:





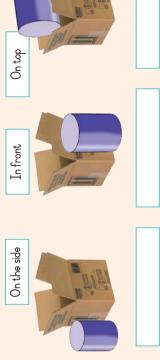
Are the faces of the prisms flat or curved?

Now make the cylinder from Cut-out sheet 4.

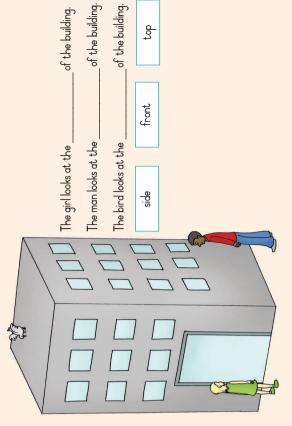




Describe the position of the cylinder using the words.







top



0

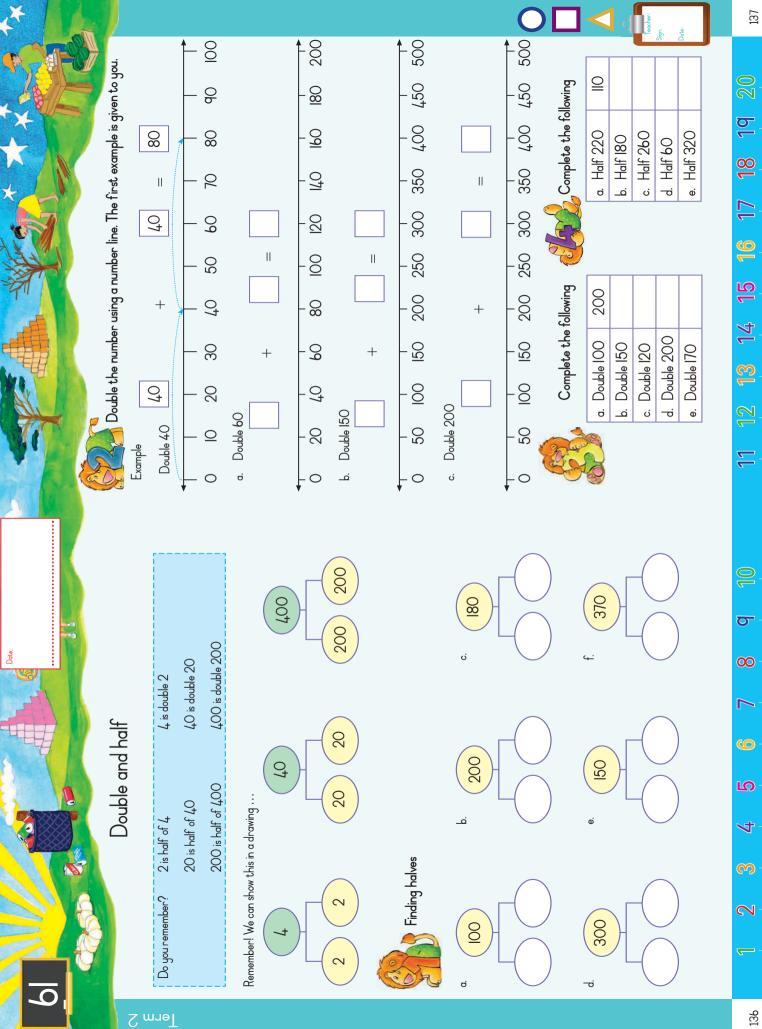
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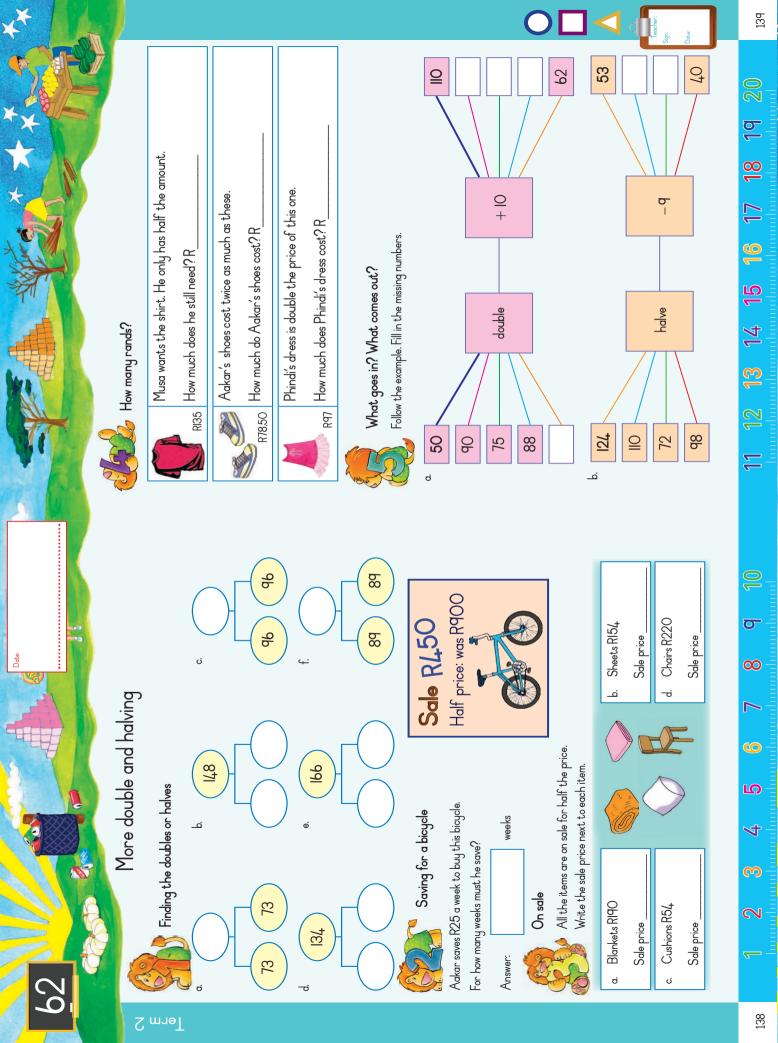
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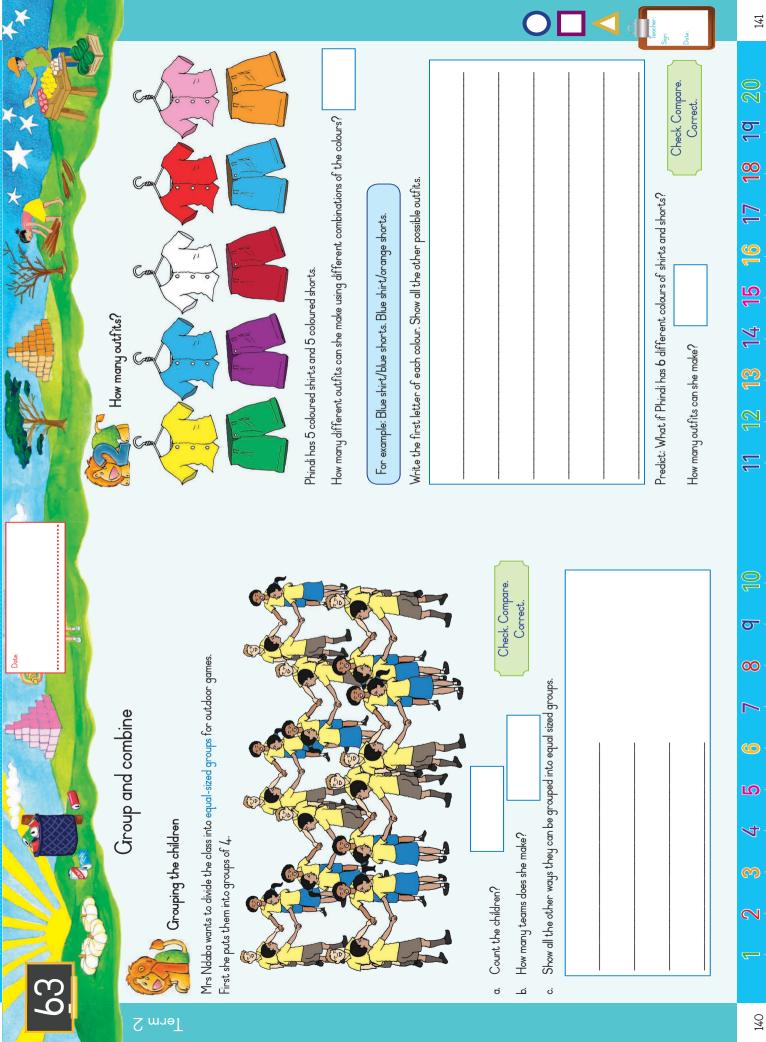
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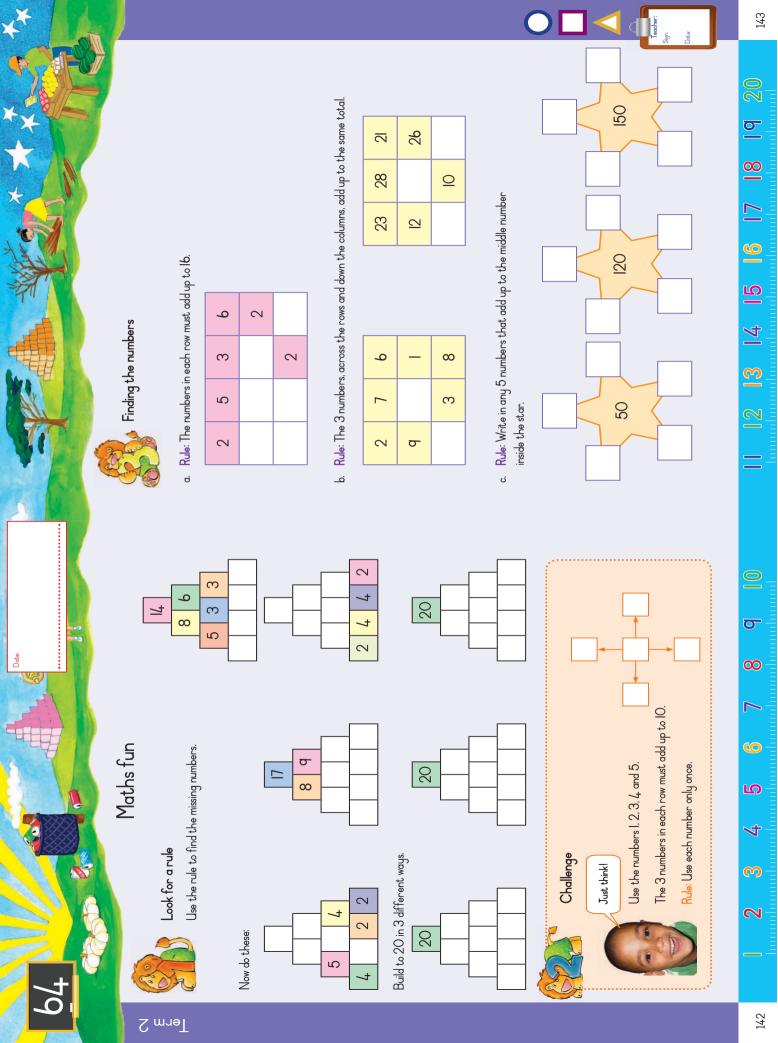
4

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		O		0	0
2	2	O	2	0	0
3	3	O	3	0	0
4	4	O	4	0	0
5	5	O	5	0	0
6	6	O	6	0	O
7	7	O	7	0	0
8	8			0	0
q	q	O	q	0	O

