



MARKS: 75

This memorandum consists of 4 pages.

General marking note:

1. Give full marks for answers only, unless otherwise stated.
2. Accept any alternative correct solution that is not included in the memorandum.
3. CA refers to consistency accuracy. See Question 4.3 as an example.

QUESTION	EXPECTED ANSWER	CLARIFICATION	MARK	TOTAL	
1	1.1 D ✓		1	10	
	1.2 B ✓		1		
	1.3 A ✓		1		
	1.4 D ✓		1		
	1.5 D ✓		1		
	1.6 B ✓		1		
	1.7 A ✓		1		
	1.8 C ✓		1		
	1.9 B ✓		1		
	1.10 D ✓		1		
2	4 x 10 000 or 40 000 or 4 x 10 ⁴ or forty thousand ✓	Any of the given options : 1 mark		1	
3	60 000 ✓	60 000: 1 mark		1	
4	4.1	$\begin{array}{r} 42\ 152 \\ 28\ 945 \\ +76\ 361 \\ \hline 147\ 458 \\ \checkmark\ \checkmark \end{array}$	<p>If the answer is wrong the learner will be credited with one mark if he has added the units, tens and hundreds correctly.</p>	<p>All digits correct 147 458: 2 marks. Digits 458: 1 mark Digits 147: 1 mark</p>	2
	4.2	$\begin{array}{r} 87\ 546 \\ -\ 43\ 968 \\ \hline 43\ 578 \\ \checkmark\ \checkmark \end{array}$	<p>If the answer is wrong the learner will be credited with one mark if he has subtracted the units, tens and hundreds correctly.</p>	<p>All digits correct 43 578: 2 marks. Digits 578: 1 mark Digits 43: 1 mark</p>	2

4.3	$\begin{array}{r} 3\ 107 \\ \times \quad 35 \\ \hline 15\ 535 \checkmark \\ 93\ 210 \checkmark \\ \hline 108\ 745 \checkmark \end{array}$ <p>Example of CA</p> $\begin{array}{r} 3\ 107 \\ \times \quad 35 \\ \hline 12\ 532 \text{ x (incorrect no mark)} \\ 93\ 210 \checkmark \\ \hline 105\ 742 \checkmark \text{ (added correctly)} \end{array}$ $\begin{array}{r} 3107 \\ \times \quad 35 \\ \hline 12\ 532 \text{ x (incorrect no mark)} \\ 83\ 210 \text{ x (incorrect no mark)} \\ \hline 95\ 742 \checkmark \text{ (added correctly)} \end{array}$	<p>Answer only:</p> <p>3 marks</p> <p>$3107 \times 5 = 15\ 535$: 1 mark</p> <p>$3107 \times 30 = 93\ 210$: 1 mark</p> <p>$15\ 535 + 93\ 210 = 108\ 745$: 1 mark</p>	3
4.4	$\begin{array}{r} 476 \checkmark \\ 15 \overline{)7140} \\ - \underline{60} \checkmark \\ 114 \\ - \underline{105} \checkmark \\ 90 \\ - \underline{90} \end{array}$ <p>or</p> $\begin{array}{l} 7\ 140 \div 15 \\ = 7140 \div 5 \div 3 \\ = 1\ 428 \div 3 \\ = 476 \end{array}$ <p>or</p> $\begin{array}{l} 7\ 140 \div 15 \\ = 7\ 140 \div 3 \div 5 \\ = 2\ 380 \div 5 \\ = 476 \end{array}$	<p>Answer only: 3 marks</p> <p>60: 1 mark</p> <p>105: 1 mark</p> <p>Apply CA</p>	3
4.5	$4\frac{3}{8} + 2\frac{1}{8} \quad \text{or} \quad 4\frac{3}{8} + 2\frac{1}{8}$ $= 4 + \frac{3}{8} + 2 + \frac{1}{8} \quad = \frac{35}{8} + \frac{17}{8} \checkmark$ $= 6 + \frac{4}{8} \checkmark \checkmark \quad = \frac{52}{8} \checkmark$ $= 6\frac{1}{2} \quad = 6\frac{1}{2}$ <p>Do not penalize $6\frac{4}{8}$ or $6\frac{2}{4}$ or $\frac{52}{8} \checkmark \checkmark$</p>	<p>Answer only : 2 marks</p> <p>6: 1 mark</p> <p>$\frac{4}{8}$: 1 mark</p> <p>$6\frac{1}{2}$: 2 marks</p>	2
4.6	$\frac{2}{5} \text{ of } 300 \quad \text{or} \quad \frac{2}{5} \text{ of } 300$ $= 300 \div 5 \times 2 \checkmark \quad = 2 \times 60 \checkmark \text{ (because } 300 \div 5 = 60)$ $= 120 \checkmark \quad = 120 \checkmark$	<p>120: 2 marks</p> <p>Calculation: 1 mark</p>	2

	4.7	$5\frac{3}{5} - 2\frac{1}{5} \quad \text{or} \quad 5\frac{3}{5} - 2\frac{1}{5}$ $= 3\frac{2}{5} \checkmark\checkmark \quad = 5 + \frac{3}{5} - 2 - \frac{1}{5}$ $= 5 - 2 + \frac{3}{5} - \frac{1}{5}$ $= 3\frac{2}{5} \quad \text{or} \quad \frac{17}{5} \checkmark\checkmark$	Answer : 2 marks 3: 1 mark $\frac{2}{5}$: 1 mark		2	
	4.8	$\begin{array}{r} 59,3 \\ - 25,8 \\ \hline 33,5 \end{array} \checkmark\checkmark \quad \text{or} \quad 59,3 - 25,8 = 33,5 \checkmark\checkmark$	33,5 : 2 marks 33 : 1 mark 0,5 : 1 mark		2	18
5		$(14 \div 2) + (51 - 48) = 10 \checkmark$	10 : 1 mark			1
6		4,01 , 4,3 , 4,5 , 4,8✓	1 mark : correct order / sequence			1
7		28, 35, 42, 49 ✓	28, 35, 42, 49 : 1 mark			1
8		Number of packets = $947 \div 8 \checkmark$ $= 118 \text{ r } 3 \checkmark$ $\begin{array}{r} 118 \text{ r } 3 \\ 8 \overline{)947} \\ \underline{-8} \\ 14 \\ \underline{-8} \\ 67 \\ \underline{-64} \\ 3 \end{array}$ \therefore Number of packets needed = 118 ✓	118: 3 marks $947 \div 8$: 1 mark 118 r 3: 1 mark			3
9		336✓	336 : 1 mark			1
10	10.1	75% ✓	75%: 1 mark	1		
	10.2	0,5✓	0,5 : 1 mark	1		
	10.3	$\frac{1}{4} \checkmark$	$\frac{1}{4}$: 1 mark	1		3
11		25 280 ✓	25 280: 1 mark			1
12		Peter's amount = $R240 \div 12 \checkmark$ $= R20 \checkmark$	R20: 2 marks $R240 \div 12$: 1 mark			2
13		24 ✓	24: 1 mark			1
14		Input : 15 ✓ Output : 29 ✓	15: 1 mark 29: 1 mark			2
15	15.1	Input : 3 ✓	3: 1 mark	1		
	15.2	Input : 7 ✓	7: 1 mark	1		2
16		13 matches✓	13 : 1 mark			1
17	17.1	Obtuse ✓	1 mark	1		
	17.2	Right angle or reflex angle ✓	1 mark	1		2

18	18.1	Octagon ; Trapezium ; Rectangle or	Any three answers 1 mark each.	1	
	18.2	Hexagon ✓✓✓		1	
	18.3			1	3
19	19.1	opposite ✓	1 mark	1	
	19.2	two ✓	1 mark	1	2
20		Number of vertices : 10 ✓ Number of edges : 15 ✓ Number of faces : 7 ✓	1 mark each.		3
21		No. of litres saved = 9,5 - 8,7 ✓ = 0,8 ✓	0,8: 2 marks 9,5 – 8,7 : 1 mark		2
22	22.1	9 hours ✓	9 hours: 1 mark	1	
	22.2	8.00 a.m. ✓ or 08:00 or 8 o'clock	1 mark	1	2
23		600 ml = 0,6 l ✓	0,6 l : 1 mark		1
24		Zola ✓	Zola : 1 mark		1
25	25.1	56,8 kg ✓	56,8 kg : 1 mark	1	
	25.2	56 800 g ✓	56 800 g : 1 mark	1	2
26	26.1	Pete, Alice and Ruth ✓	Must write all three names : 1 mark	1	
	26.2	Thato ✓	1 mark	1	
	26.3	Number of marbles = 10 + 50 = 60 ✓	60 : 1 mark	1	
	26.4	Pete's % = $\frac{10}{100}$ ✓ x 100 = 10 ✓	10 : 2 marks $\frac{10}{100}$: 1 mark	2	
	26.5	Fraction = $\frac{50}{100}$ or $\frac{5}{10}$ or $\frac{1}{2}$ ✓	$\frac{1}{2}$: 1 mark.	1	6
27		Mode = 7 ✓	7: 1 mark.		1
28		A = 50 ✓	Fig 1: 1 x 2 + 2 x 3 = 8 Fig 2: 2 x 3 + 3 x 4 = 18 Fig 3: 3 x 4 + 4 x 5 = 32 Fig 4: 4 x 5 + 5 x 6 = 50		1
TOTAL					75