





MARKS: 60

This memorandum consists of 3 pages.

Important information:

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 consistent accuracy. See clarification in Question 8.1.

Question	Expected Answer	Clarification	Mark allocation	Total
1.	1.1 B ✓		1	8
	1.2 B ✓		1	
	1.3 C ✓		1	
	1.4 D ✓		1	
	1.5 B ✓		1	
	1.6 D ✓		1	
	1.7 D ✓		1	
	1.8 B ✓		1	
2.	98 ✓		1	1
3.	6 ✓		1	2
	1 000 ✓		1	
4.	3 ✓		1	1
5.	p = 9 ✓ and t = 5 ✓		1	2
			1	
6.	 ✓		1	2
	 ✓		1	
7.	7.1 (6 x 4) ✓		1	2
	7.2 5 ✓		1	
8.	8.1	$\begin{array}{r} 7\,000 \\ 456 \\ + 98\,734 \\ \hline 106\,190 \end{array} \quad \checkmark$ <p>or</p> $\begin{array}{r} 7\,000 = 7\,000 \\ 456 = 400 + 50 + 6 \\ + 98\,734 = 90\,000 + 8\,000 + 700 + 30 + 4 \end{array} \quad \checkmark$ $\begin{array}{l} \text{Sum} = 90\,000 + 15\,000 + 1\,100 + 80 + 10 \\ = 106\,190 \end{array} \quad \checkmark$ <p>or</p> $\begin{array}{l} 7\,000 + 400 + 50 + 6 + 90\,000 + 8\,000 + 700 + 30 + 4 \\ = 90\,000 + 7\,000 + 8\,000 + 400 + 700 + 50 + 30 + 6 + 4 \\ = 105\,000 + 1\,000 + 100 + 80 + 10 \\ = 106\,190 \end{array} \quad \checkmark$	Digits in correct columns: 1 mark Correct answer: 1 mark  $\begin{array}{r} 7\,000 \\ 456 \quad \times \\ + 98\,734 \\ \hline 214\,334 \end{array} \quad \checkmark$ 1 mark for CA	2
	8.2	$\begin{array}{r} 78\,954 \\ - 4\,563 \\ \hline 74\,391 \end{array} \quad \checkmark$	Digits in correct columns: 1 mark Correct answer: 1 mark	

	<p>or</p> $\begin{array}{r} 78\ 954 = 70\ 000 + 8\ 000 + 800 + 150 + 4 \\ - \quad 4\ 563 = \quad \quad - 4\ 000 - 500 - 60 - 3 \\ \hline \text{Difference} = 70\ 000 + 4\ 000 + 300 + 90 + 1 \checkmark \\ = \underline{74\ 391} \checkmark \end{array}$ <p>or</p> $\begin{array}{l} 78\ 954 - 4\ 000 \rightarrow 74\ 954 - 500 \rightarrow \\ 74\ 454 - 60 \rightarrow 74\ 394 - 3 \rightarrow 74\ 391 \end{array}$ <p>or</p> $\begin{array}{l} 78\ 954 - 3 \rightarrow 74\ 951 - 60 \rightarrow 74\ 891 - 500 \rightarrow \\ 74\ 391 - 4\ 000 \rightarrow 74\ 391 \end{array}$	Apply CA			
8.3	$\begin{array}{r} 456 \\ \times \quad 64 \\ \hline 1\ 824 \checkmark \\ + 27\ 360 \checkmark \\ \hline 29\ 184 \checkmark \end{array}$ <p>or</p> $\begin{array}{l} 456 \times 64 \quad \text{or} \quad 456 \times (60 + 4) \checkmark \\ = 456 \times 8 \times 8 \checkmark \quad = (456 \times 60) + (456 \times 4) \\ = 3\ 648 \times 8 \checkmark \quad = 27\ 360 + 1\ 824 \checkmark \\ = \underline{29\ 184} \checkmark \quad = \underline{29\ 184} \checkmark \end{array}$ <p>or</p> $\begin{array}{l} 456 \times (70 - 6) \checkmark \\ = (456 \times 70) - (456 \times 6) \\ = 31\ 920 - 2\ 736 \checkmark \\ = \underline{29\ 184} \checkmark \end{array}$	<p>A mark for each correct step. A mark for the correct answer.</p> <p>Apply CA</p>			2
8.4	$3\frac{4}{7} + 5\frac{3}{7} = 8 + \frac{4}{7} + \frac{3}{7} = 8 + \frac{7}{7} \checkmark = 9 \checkmark$	<p><math>8 + \frac{7}{7}</math>: 1 mark Answer: 1 mark</p> <p>Apply CA</p>			3
8.5	$\begin{array}{l} 5\frac{4}{9} - 3\frac{2}{9} \\ = 5 + \frac{4}{9} - 3 - \frac{2}{9} \checkmark \\ = 2 + \frac{2}{9} \quad \text{or} \\ = 2\frac{2}{9} \checkmark \end{array}$ $\begin{array}{l} 5\frac{4}{9} - 3\frac{2}{9} \\ = 2 + \frac{4}{9} - \frac{2}{9} \checkmark \\ = 2 + \frac{2}{9} \\ = 2\frac{2}{9} \checkmark \end{array}$	<p>Breaking down: 1 mark Answer: 1 mark</p>			2
9.	$\begin{array}{l} 294 \div 21 \\ = 294 \div \underline{7} \checkmark \div 3 \\ = \underline{42} \checkmark \div 3 \\ = \underline{14} \checkmark \end{array}$				3
10.	35 $\checkmark$ 28 $\checkmark$				2
11.	8 $\checkmark$				1
					11

12.		Total amount = R18 975 + R21 762 ✓ = R40 737 ✓	Correct operation: 1 mark Correct answer: 1 mark	2 1	2 1
13.		$(24 \div 2) - 2 = x$ or $(24 \div 2) - 2 = \square$ ✓			
14.		Name of object: Triangular prism ✓ Number of faces: 5 ✓ Shapes of faces: Triangles ✓ and rectangles ✓		4	4
15.		Perimeter = $2(11 m) + 2(5 m)$ ✓ = $22 m + 10 m$ = $32 m$ ✓ or Perimeter = $5 m + 5 m + 11 m + 11 m$ ✓ = $32 m$ ✓		2	2
16.		Difference = $120 cm$ ✓ - $63 cm$ = $57 cm$ ✓	1 mark convert $m$ to $cm$ 1 mark for answer	2	2
17.		1 kg 330 g ✓		1	1
18.		Rotation ✓ and translation ✓ or Translation ✓ and rotation ✓	Any order is acceptable	2	2
19.	19.1	Winter ✓		1	2
	19.2	Friday ✓		1	
20.	20.1	4E or E4 ✓		1	2
	20.2	8F or F8 ✓		1	
21.		31 ✓✓	$\Delta 1: 2 \times 5 - 3 = 7$ $\Delta 2: 3 \times 4 - 2 = 10$ $\Delta 3: 7 \times 5 - 4 = 31$	2	2
22.	22.1	Soccer ✓		1	5
	22.2	Rugby ✓	1 mark for answer	1	
	22.3	No. of learners = $90 - 20$ = $70$ ✓		1	
	22.4	Total no. of learners = $40 + 70 + 60 + 90 + 40 + 20$ ✓ = $320$ ✓		2	
<b>Total</b>				<b>60</b>	