



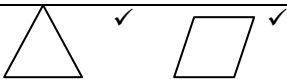
MARKS: 60

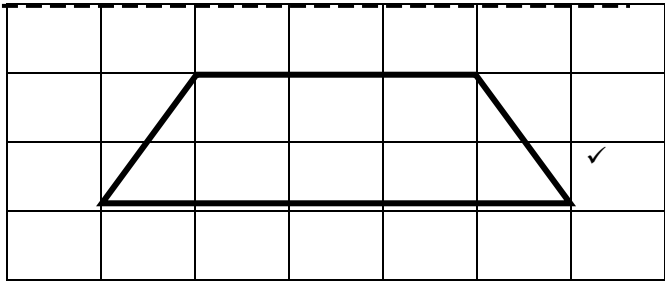
This memorandum consists of 3 pages.

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	D ✓		1	
	1.3	C ✓		1	
	1.4	B ✓		1	
	1.5	C ✓		1	
	1.6	B ✓		1	
	1.7	A ✓		1	
	1.8	B ✓		1	
2.	2.1	33 755 ✓		1	2
	2.2	100 000 ✓		1	
3.	200 000 or 2 Hundred Thousand or 2HTh ✓		1	1	
4.	< ✓		1	1	
5.	9 ✓		1	1	
6.	19 ✓	(Rule 3 = $2 \times 1 + 1$ $5 = 2 \times 2 + 1$, $7 = 2 \times 3 + 1$) $19 = 2 \times 9 + 1$	1	2	
	25 ✓	$25 = (51-1) \div 2$	1		
7.	7.1	True ✓		1	3
	7.2	False ✓		1	
	7.3	True ✓		1	
8.	8.1	$\begin{array}{r} 11\ 523 \\ 21\ 275 \\ + 7\ 356 \\ \hline 40\ 154 \end{array} \checkmark$ <p>or</p> $\begin{array}{r} 11\ 523 = 10\ 000 + 1\ 000 + 500 + 20 + 3 \\ 21\ 275 = 20\ 000 + 1\ 000 + 200 + 70 + 5 \\ + 7\ 356 \qquad \qquad \qquad 7\ 000 + 300 + 50 + 6 \\ \hline \text{Sum} = 40\ 000 + \qquad \qquad + 100 + 50 + 4 \\ \hline = 40\ 154 \end{array} \checkmark$ <p>or</p> $\begin{array}{l} 10\ 000 + 1\ 000 + 500 + 20 + 3 + 20\ 000 + 1\ 000 + 200 + \\ 70 + 5 + 7\ 000 + 300 + 50 + 6 \\ = 10\ 000 + 20\ 000 + 1\ 000 + 1\ 000 + 7\ 000 + 500 + 200 \\ + 300 + 20 + 70 + 50 + 3 + 5 + 6 \qquad \qquad \qquad \checkmark \\ = 40\ 000 + 100 + 50 + 4 \\ = 40\ 154 \end{array} \checkmark$	<p>Arrangement of values: 1 mark Correct answer: 1 mark</p> $\begin{array}{r} 11\ 523 \\ 21\ 275 \ X \\ + 7\ 356 \\ \hline 106\ 358 \end{array} \checkmark$ <p>1 mark for CA</p>	2	2
		8.2	$\begin{array}{r} 69\ 157 \\ -17\ 239 \\ \hline 51\ 918 \end{array} \checkmark$	<p>Arrangement of values: 1 mark Correct answer: 1 mark</p>	

	<p>or</p> $\begin{array}{r} 69\ 157 = 60\ 000 + 9\ 000 + 100 + 50 + 7 \\ - 17\ 239 = 10\ 000 + 7\ 000 + 200 + 30 + 9 \\ \hline \text{Difference} = 50\ 000 + 1\ 000 + 900 + 10 + 8 \\ = \underline{51\ 918} \checkmark \end{array}$ <p>or</p> $\begin{aligned} &60\ 000 + 9\ 000 + 100 + 50 + 7 - 10\ 000 - 7\ 000 - 200 - 30 - 9 \\ &= 60\ 000 - 10\ 000 + 8\ 000 - 7\ 000 + 11\ 00 - 200 + 40 - 30 + 17 - 9 \\ &= 50\ 000 + 1\ 000 + 900 + 10 + 8 \\ &= \underline{51\ 918} \checkmark \end{aligned}$	Apply CA		
8.3	$\begin{array}{r} 976 \\ \times \quad 54 \\ \hline 3\ 904 \checkmark \\ + 48\ 800 \checkmark \\ \hline 52\ 704 \checkmark \end{array}$ <p>or $976 \times 54 = 976 \times 9 \times 6 \checkmark = 8\ 784 \times 6 = \underline{52\ 704} \checkmark$</p> <p>or $976 \times (50 + 4) \checkmark = (976 \times 50) + (976 \times 4) \checkmark = 48\ 800 + 3\ 904 \checkmark = \underline{52\ 704} \checkmark$</p>	A mark for each correct step. A mark for the correct answer.		
		Apply CA	3	
8.4	$\begin{array}{r} \checkmark \quad 8 \quad 1 \text{ rem } 8 \checkmark \\ 9 \overline{) 737} \\ \underline{- 7} \quad 2 \quad 7 \\ \quad \underline{1} \quad 7 \quad \checkmark \\ \quad \quad \underline{-} \quad 9 \\ \quad \quad \quad 8 \end{array}$ <p>or</p> $\begin{aligned} 737 \div 9 &= (720 + 17) \div 9 \\ &= (720 \div 9) + (17 \div 9) \checkmark \\ &= 80 + 1 \text{ rem } 8 \\ &= 81 \checkmark \text{ rem } 8 \checkmark \end{aligned}$	Correct quotient: 1 mark Correct calculation: 1 mark Correct remainder: 1 mark		
		Apply CA		
			3	
8.5	$6\frac{1}{7} + 2\frac{2}{7} = 8 + \frac{1}{7} + \frac{2}{7} = 8\frac{3}{7} \checkmark \checkmark$	Answer only, give full marks		
			2	
8.6	$3\frac{3}{5} - 1\frac{1}{5} = 2\frac{2}{5} \checkmark \checkmark$	Whole number: 1 mark Common fraction: 1 mark Answer only: full mark		
			2	14
9.	4✓		1	1
10		Accept any quadrilateral	2	2
11.	The amount / hour = R4 200 ÷ 60 = R420 ÷ 6 = R70 ✓✓	Correct operation: 1 mark Correct answer: 1 mark	2	2
12.	$20\ 500 - (2\ 341 + 578 + 10\ 690) = \square \text{ or } x$ <p>or</p> $20\ 500 - 2\ 341 - 578 - 10\ 690 = \square \text{ or } x$	Correct operation: 1 mark Correct answer: 1 mark		
			2	2

13.		Cost = $4 \times R\ 320$ ✓ = <u>R 1 280</u> ✓	Identifying correct operation: 1 mark Correct product: 1 mark Apply CA	2	2
14.		5 ✓ Triangles ✓ and a square ✓		3	3
15.				1	1
16.		7.10 p.m. or ten past seven in the evening ✓		1	1
17.		38 min to 41 min = 3 min 10 sec to 15 sec = 5 sec The time difference = 3 min ✓ 5 sec ✓	Do not penalise if statement is not given Apply CA	2	2
18.		3 ℓ ✓ and 460 ml ✓		2	2
19.	19.1	19 °C ✓		1	2
	19.2	15 °C ✓		1	
20.	20.1	Wednesday ✓		1	6
	20.2	### ### ### ### ### ### ### ✓✓		2	
	20.3	45 ✓		1	
	20.4	The cost of juice = $30 \times R2,00$ ✓ = R60.00 ✓	Identifying correct operation: 1 mark Correct product: 1 mark (do not penalise if statement is not given) Apply CA	2	
21.		36 rectangles ✓✓	If the learner's answer is any number from 18 to 35, give 1 mark	2	2
					TOTAL: 60