

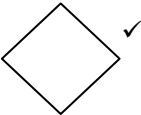


MARKS: 50

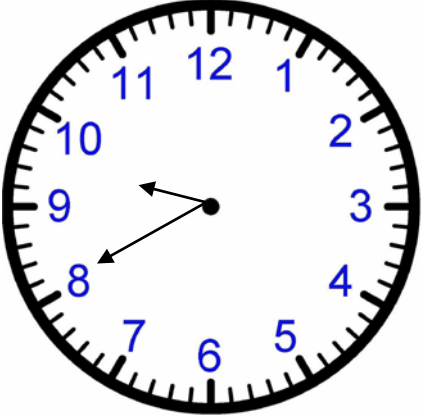
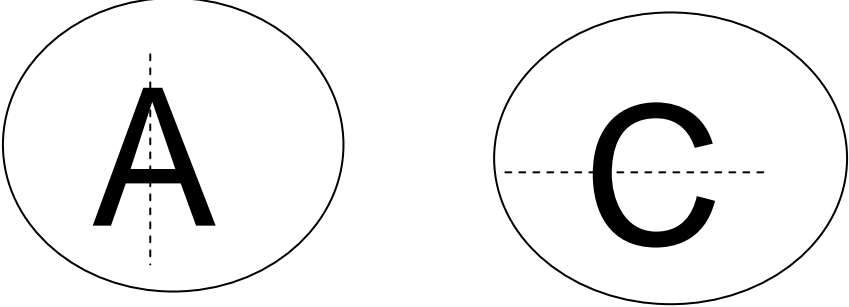
This memorandum consists of 5 pages.

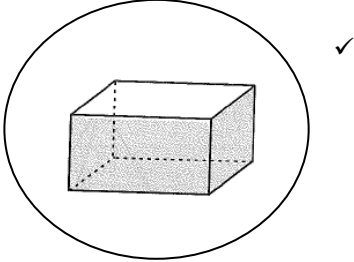
Important information:

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 7.1.

Question	Expected Answer	Clarification	Mark allocation	Total
1.	1.1 D✓		1	6
	1.2 B✓		1	
	1.3 B✓		1	
	1.4 A✓		1	
	1.5 D✓		1	
	1.6 C✓		1	
2.	$(32 + 25) + 16 = (25 + \underline{16})$ ✓		1	1
3.	3.1 1 000 ✓		1	2
	3.2 		1	
4.	7 ✓		1	1
5.	< ✓		1	1
6.	6.1		1	2
	6.2		1	

7.	7.1	$3\ 457 + 2\ 789$ $= 3\ 000 + 400 + 50 + 7 + 2\ 000 + 700 + 80 + 9$ $= 3\ 000 + 2\ 000 + 400 + 700 + 50 + 80 + 7 + 9 \quad \checkmark$ $= 5\ 000 + 1\ 100 + 130 + 16$ $= 6\ 246 \quad \checkmark$ <p style="text-align: center;"><u>or</u></p> $\begin{array}{rcl} & 7 + 9 & = 16 \\ \text{and} & 50 + 80 & = 130 \quad \checkmark \\ \text{and} & 400 + 700 & = 1\ 100 \\ \text{and} & 3\ 000 + 2\ 000 & = 5\ 000 \end{array}$ $\text{means } 3\ 457 + 2\ 789 = 6\ 246 \quad \checkmark$ <p style="text-align: center;"><u>or</u></p> $3\ 457 + 2\ 000 \rightarrow 5\ 457 + 700 \rightarrow 6\ 157 + 80 \rightarrow 6\ 237 + 9 \rightarrow 6\ 246 \quad \checkmark$ <p style="text-align: center;"><u>or</u></p> $3\ 457 + 9 \rightarrow 3\ 466 + 80 \rightarrow 3\ 546 + 700 \rightarrow 4\ 246 + 2\ 000 \rightarrow 6\ 246 \quad \checkmark$	Method: 1 mark Answer: 1 mark Apply CA	2	
	7.2	$7\ 874 - 3\ 785$ $= 7\ 000 + 800 + 70 + 4 - 3\ 000 - 700 - 80 - 5$ $= 7\ 000 - 3\ 000 + 800 - 700 + 70 - 80 + 4 - 5$ $= 4\ 000 + 100 + 70 - 80 + 4 - 5$ $= 4\ 000 + 170 - 80 + 4 - 5$ $= 4\ 000 + 90 + 4 - 5$ $= 4\ 000 + 80 + 14 - 5$ $= 4\ 000 + 80 + 9$ $= 4\ 089 \quad \checkmark$ <p style="text-align: right;">} $\checkmark \checkmark$</p> <p style="text-align: center;"><u>or</u></p> $7\ 874 - 3\ 000 \rightarrow 4\ 874 - 700 \rightarrow 4\ 174 - 80 \rightarrow 4\ 094 - 5 \rightarrow 4\ 089 \quad \checkmark$ <p style="text-align: center;"><u>or</u></p> $7874 - 5 \rightarrow 7\ 869 - 80 \rightarrow 7\ 789 - 700 \rightarrow 7\ 089 - 3\ 000 \rightarrow 4\ 089 \quad \checkmark$	Method: 2 marks Answer: 1 mark Apply CA	3	
	7.3	$76 \times 35 = 76 \times 7 \times 5 \quad \checkmark$ $= 532 \times 5 \quad \checkmark$ $= 2\ 660 \quad \checkmark$ <p style="text-align: center;"><u>or</u></p> $76 \times 35 = 76 \times (30 + 5)$ $= (76 \times 30) + (76 \times 5) \quad \checkmark$ $= 2\ 280 + 380 \quad \checkmark$ $= 2\ 660 \quad \checkmark$ <p style="text-align: center;"><u>or</u></p> $76 \times 35 = 76 \times 5 \times 7 \quad \checkmark$ $= 380 \times 7 \quad \checkmark$ $= 2\ 660 \quad \checkmark$ <p style="text-align: center;"><u>or</u></p> $35 \times (70 + 6)$ $= (35 \times 70) + (35 \times 6) \quad \checkmark$ $= 2\ 450 + 210 \quad \checkmark$ $= 2\ 660 \quad \checkmark$	Method: 2 marks Answer: 1 mark Apply CA	3	

7.4	$852 \div 6 = (600 + 240 + 12) \div 6$ $= (600 \div 6) + (240 \div 6) + (12 \div 6) \checkmark$ $= 100 + 40 + 2 \checkmark$ $= 142 \checkmark$ <p style="text-align: center;">or</p> $852 \div 6 = 852 \div 2 \div 3 \checkmark$ $= 426 \div 3 \checkmark$ $= 142 \checkmark$ <p style="text-align: center;">or</p> $852 \div 6 = 852 \div 3 \div 2 \checkmark$ $= 284 \div 2 \checkmark$ $= 142 \checkmark$	Method: 2 marks Answer: 1 mark Apply CA	3	11
8.	$12 \div 3 = 8 \div 2 \checkmark$		1	1
9.		Minute hand must point to 8. Hour hand must be between 9 and 10. The hour hand should be closer to the ten.	1	1
10.	10.1 C and D \checkmark 10.2 6 h 30 min. \checkmark		1	2
11.	Side view \checkmark		1	1
12.		The symmetry line <u>need not</u> be drawn. Accept A or C	1	1

13.		$1,5 m \checkmark$ or $1\frac{1}{2}m$		1	1
14.		36 hours \checkmark		1	1
15.		$12 \longrightarrow \boxed{+6 \checkmark} \longrightarrow \boxed{\times 3} \longrightarrow 54 \checkmark$		1	1
16.	16.1	Number of litres = $5 \times 1\frac{1}{2}$ $= 5 \times (1 + \frac{1}{2})$ $= 5 \times 1 + 5 \times \frac{1}{2}$ $= 5 + 2\frac{1}{2}$ $= 7\frac{1}{2}$ or 7,5 \checkmark		1	2
	16.2	Number of litres left = $7,5 - 5$ $= 2,5 \checkmark$ or $2\frac{1}{2}$		1	
17.	17.1	Yes \checkmark		1	1
	17.2	$\frac{3}{4} \checkmark$		1	1
18.	18.1	<u>hexagon</u> \checkmark <u>irregular</u> \checkmark		2	2
	18.2	The shape marked C \checkmark is a pentagon. The shape marked B \checkmark is a trapezium.		2	2
19.	19.1	A 		1	2
	19.2	5 \checkmark		1	
20.		$10 \checkmark \checkmark$ $\triangle 1: 3+4+5=12$ $\triangle 2: 5+6+7=18$ $\triangle 3: 5+6+10=21$	Answer only: 2 marks.	2	2
21.	21.1	Paper \checkmark		1	

	21.2	Glass and plastic ✓			1												
	21.3	$\frac{2}{4}$ or $\frac{1}{2}$ ✓			1												
	21.4	<table border="1"> <thead> <tr> <th>Recycling material</th> <th>Tally marks</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>Paper</td> <td> +++++ +++++ +++++ +++++ +++++ +++++ </td> <td>30</td> </tr> <tr> <td>Glass</td> <td> +++++ +++++ +++++ ✓ </td> <td>15</td> </tr> <tr> <td>Plastic</td> <td> +++++ +++++ +++++ </td> <td>15 ✓</td> </tr> </tbody> </table>	Recycling material	Tally marks	Frequency	Paper	+++++ +++++ +++++ +++++ +++++ +++++	30	Glass	+++++ +++++ +++++ ✓	15	Plastic	+++++ +++++ +++++	15 ✓			2
Recycling material		Tally marks	Frequency														
Paper		+++++ +++++ +++++ +++++ +++++ +++++	30														
Glass		+++++ +++++ +++++ ✓	15														
Plastic	+++++ +++++ +++++	15 ✓															
				TOTAL:	50												