Mathematics · Grade 7

Memorandum · Term 1–4

TOTAL
43
MARKS

Marking guidelines

1. Award method marks even where the final answer is wrong.
2. Accept any correct method, including one that differs from the memorandum.
3. An answer without the unit loses the unit mark, not the whole question.
4. Where a question asks for two or more items, award one mark per correct item.
5. Do not deduct marks for handwriting, provided the answer can be read.

Question	Answer	Marks	Marking note
QUESTION 1 · Multiple choice · 3 marks			
1.1	b. 100 mm²	**1**	*10 mm × 10 mm*
1.2	b. 1 kℓ	**1**	
1.3	b. 27 cm³	**1**	
QUESTION 2 · Matching · 4 marks			
2.1	1 = C (perimeter); 2 = A (area); 3 = E (volume); 4 = B (surface area)	**4**	*1 mark each.*
QUESTION 3 · Perimeter and area of 2D shapes · 8 marks			
3.1	a. 8 × 17 = 136 cm b. side = 15 cm because 15 × 15 = 225; 4 × 15 = 60 cm	**3**	*1 mark for a., 2 for b.*
3.2	$\frac{1}{2} \times 12 \times h = 48$, so $6 \times h = 48$; h = 8 cm	**2**	*1 mark per step.*
3.3	4,5 × 3,2 = 14,4 m²; 14,4 × R85 = R1 224	**3**	*1 mark per step.*
QUESTION 4 · Surface area and volume · 8 marks			
4.1	20 × 12 × 7,5 = 1 800 cm³; 1,8 ℓ	**3**	*1 mark per step.*
4.2	2 × 40 + 2 × 32 + 2 × 20 = 80 + 64 + 40 = 184 cm²	**3**	*1 mark per step.*
4.3	a. 4,5 b. 2 500 000	**2**	*1 mark each.*

Question	Answer	Marks	Marking note
QUESTION 5 · Perimeter, area, volume and surface area · 16 marks			
5.1	a. A = 64 cm³; B = 64 cm³ b. A = 6 × 16 = 96 cm²; B = 2 × 32 + 2 × 16 + 2 × 8 = 112 cm²	**4**	*1 mark per volume, 1 mark per surface area.*
5.2	$\frac{1}{2} \times 20 \times 13 = 130$ cm²	**2**	*1 mark per step.*
5.3	12 × 9 × 5 = 540 cm³	**3**	*1 mark per step.*
5.4	One face = 9 × 9 = 81 cm²; 6 × 81 = 486 cm²	**3**	*1 mark per step.*
5.5	Perimeter = 2(25 + 14) = 78 m; 78 × 38 = R2 964	**4**	*1 mark per step.*
QUESTION 6 · Problem solving · 4 marks			
6.1	12 × 6 × 1,5 = 108 m³; 1 m³ = 1 000 ℓ = 1 kℓ; so 108 kℓ	**4**	*1 mark per step.*

Total **43 marks**



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