Mathematics · Grade 6

Memorandum · Term 1–4

TOTAL
50
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 · 6 marks			
1.1	a. Every person's arm is a different length	**1**	
1.2	a. Right	**1**	
1.3	b. 2 450 mm	**1**	
1.4	c. 3	**1**	*60 ÷ (5 × 4) = 3*
1.5	a. A cylinder	**1**	
1.6	b. 17	**1**	*40 − 23 = 17. The result does not have to be 20 and 20.*
QUESTION 2 · Time and temperature · 6 marks			
2.1	a. 25 minutes past 3 (03:25) b. 15:25	**2**	*1 mark each.*
2.2	21:40 + 3 hours 55 min = 01:35 the next morning	**2**	*1 mark for the working, 1 for the answer (the day change is required).*
2.3	a. 26 °C b. 26 − 21,5 = 4,5 °C	**2**	*1 mark each.*
QUESTION 3 · Length and mass · 8 marks			
3.1	4,85 km = 4 850 m; 3 250 g = 3,25 kg; 0,6 m = 600 mm	**3**	*1 mark each.*
3.2	a. 1 400 g b. 1,4 kg	**2**	*1 mark each.*

Question	Answer	Marks	Marking note
3.3	a. 1 500 g = 1,5 kg; 2,5 + 1,5 = 4 kg b. 4 × R24 = R96	**3**	*1 mark for 1 500 g = 1,5 kg, 1 for the total of 4 kg, 1 for R96.*
QUESTION 4 · Capacity and volume · 8 marks			
4.1	a. 750 mℓ b. 0,75 ℓ (also accept $\frac{3}{4}$ ℓ)	**2**	*1 mark each.*
4.2	5 cubic units	**2**	*2 marks for the correct count 5 (cubic units); 0 for any other count.*
4.3	12 × 5 = 60 cubes per layer (1); 60 × 4 = 240 cubes (1).	**2**	*1 mark for the working (12 × 5 × 4), 1 mark for the answer 240 cubes.*
4.4	1,5 kℓ = 1 500 ℓ; 1 500 ÷ 12 = 125 buckets	**2**	*1 mark for the conversion, 1 for the answer.*
QUESTION 5 · Perimeter and area · 8 marks			
5.1	Perimeter = 2(24 + 15) = 78 cm. Area = 24 × 15 = 360 cm²	**3**	*1 mark for perimeter, 2 marks for area with the unit.*
5.2	96 ÷ 12 = 8 cm wide; perimeter = 2(12 + 8) = 40 cm	**2**	*1 mark for the width, 1 for the perimeter.*
5.3	9 square units	**1**	
5.4	36 ÷ 4 = 9 m per side; 9 × 9 = 81 m²	**2**	*1 mark for the side length, 1 for the area with the unit.*
QUESTION 6 · Position, 3D objects and symmetry · 8 marks			
6.1	a. E1 b. the police station c. 4 blocks to the right and 3 blocks up	**4**	*a. 1 mark; b. 1 mark; c. 2 marks (1 per direction). Also accept "3 blocks up, then 4 blocks to the right".*
6.2	a. A b. a tetrahedron (a triangular-based pyramid) c. Two squares would lie on top of each other, so the box cannot close.	**3**	*1 mark each. Accept any sensible reason for c.*
6.3	3	**1**	

Question	Answer	Marks	Marking note
QUESTION 7 · Data handling · 6 marks			
7.1	a. 6 + 9 + 4 + 11 + 7 = 37 books b. 9 − 6 = 3 books c. Ordered: 4; 6; 7; 9; 11 → median = 7 d. Tuesday and Friday (9 + 7) e. Thursday f. 11/37 (11 out of 37)	**6**	*1 mark each.*

Total **50 marks**



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