Mathematics · Grade 6

Memorandum · Term 1–4

TOTAL
62
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 · 5 marks			
1.1	c. 20:45	**1**	
1.2	b. 3 600 mm	**1**	
1.3	a. 3 cm	**1**	*60 ÷ (5 × 4) = 3*
1.4	a. So that everyone measures with the same standard unit	**1**	
1.5	a. 0 °C	**1**	
QUESTION 2 · Matching · 4 marks			
2.1	1 = D (perimeter); 2 = C (area); 3 = A (volume); 4 = E (mass)	**4**	*1 mark each.*
QUESTION 3 · Temperature · 6 marks			
3.1	a. 14 °C b. 31 °C	**2**	*1 mark each.*
3.2	38,4 − 37,0 = 1,4 °C	**2**	*1 mark for the working, 1 for the answer.*
3.3	9 °C; 23,5 °C; 36,7 °C; 100 °C	**2**	*2 marks if all four are correct; 1 mark if only one pair is swapped.*

Question	Answer	Marks	Marking note
QUESTION 4 · Mass and time · 7 marks			
4.1	a. 1 250 g b. 1,25 + 0,45 = 1,7 kg c. 2 − 1,7 = 0,3 kg	**3**	*1 mark each. Accept 1 700 g for b and 300 g for c.*
4.2	19:35 + 2 h = 21:35; 21:35 + 50 min = 22:25	**2**	*1 mark for the working, 1 for the answer.*
4.3	31 − 25 = 6 days in May; 6 + 14 = 20 days	**2**	*1 mark per step. Also accept 21 if both dates are counted.*
QUESTION 5 · Length and mass · 8 marks			
5.1	6,35 km = 6 350 m; 4 750 g = 4,75 kg; 0,8 m = 800 mm	**3**	*1 mark each.*
5.2	0,6 kg = 600 g; 750 + 600 = 1 350 g; 2 000 − 1 350 = 650 g	**2**	*1 mark for 1 350 g, 1 for 650 g.*
5.3	12 × 65 = 780 kg; 1 000 − 780 = 220 kg	**3**	*1 mark per step.*
QUESTION 6 · Capacity and volume · 8 marks			
6.1	a. 750 mℓ b. 0,75 ℓ (also accept $\frac{3}{4}$ ℓ)	**2**	*1 mark each.*
6.2	5 cubic units	**2**	*2 marks for the correct answer 5.*
6.3	9 × 4 × 5 = 180 cm³	**2**	*1 mark for the working, 1 for the unit.*
6.4	1,5 kℓ = 1 500 ℓ; 1 500 ÷ 12 = 125 buckets	**2**	*1 mark for the conversion, 1 for the answer.*
QUESTION 7 · Measurement · 4 marks			
7.1	4 500 m	**1**	*1 mark.*
7.2	2,35 kg	**1**	*1 mark.*
7.3	3 000 mℓ	**1**	*1 mark.*
7.4	750 mm	**1**	*1 mark.*
QUESTION 8 · Perimeter and area · 8 marks			
8.1	a. 8 cm³ each b. A: 28 squares; B: 24 squares c. B	**3**	*1 mark each; both values needed for b. The two boxes have the same volume but a different outside area.*

Question	Answer	Marks	Marking note
8.2	a. A: 6 + 4 + 6 + 4 = 20 cm, area 24 cm²; B: 9 + 1 + 9 + 1 = 20 cm, area 9 cm² b. The perimeters are the same but the areas differ.	**2**	*1 mark each.*
8.3	9 square units	**1**	
8.4	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 9 · Perimeter, area and volume · 9 marks			
9.1	Perimeter = 2 × (95 + 60) = 310 m. Area = 95 × 60 = 5 700 m²	**4**	*2 marks each, with the unit.*
9.2	7 cubic units	**2**	*2 marks for the correct answer 7.*
9.3	64 ÷ 4 = 16 cm per side; 16 × 16 = 256 cm²	**3**	*1 mark per step.*
QUESTION 10 · Ordering measurements · 3 marks			
10.1	85 cm (850 mm); 0,9 m (900 mm); 1 050 mm; 1,2 m (1 200 mm)	**3**	*1 mark for the conversion, 2 for the correct order.*

Total **62 marks**



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