Mathematics · Grade 7

Memorandum · Term 1–4

TOTAL
55
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 · Short questions · 5 marks			
1.1	90°	**1**	
1.2	3	**1**	
1.3	6	**1**	
1.4	6	**1**	
1.5	1 m³	**1**	
QUESTION 2 · Transformations on squared paper · 6 marks			
2.1	a. A right-angled triangle with a horizontal side of 4 squares and a vertical side of 6 squares. b. Similar — the same shape and the same angles, but every side is twice as long.	**4**	*a. 1 mark per correct side. b. 1 mark for "similar", 1 for the reason.*
2.2	The same triangle, the same way round, with its right angle 6 squares to the right of and 2 squares below A's right angle.	**2**	*1 mark for the correct shape and size, 1 for the correct position.*
QUESTION 3 · Triangles and prisms · 5 marks			
3.1	a. Equilateral b. Isosceles c. Right-angled d. Yes — an isosceles triangle has at least two equal sides, and an equilateral triangle has three.	**4**	*1 mark each.*
3.2	9	**1**	

Question	Answer	Marks	Marking note
QUESTION 4 · Perimeter, area, volume and surface area · 16 marks			
4.1	Perimeter = 2(36 + 22) = 116 cm. Area = 36 × 22 = 792 cm²	**4**	*2 marks each, with the unit.*
4.2	a. 35 b. 25 000	**2**	*1 mark each.*
4.3	10 × 6 × h = 360; 60 × h = 360; h = 6 cm	**3**	*1 mark per step.*
4.4	2 × 20 + 2 × 15 + 2 × 12 = 40 + 30 + 24 = 94 cm²	**3**	*1 mark per step.*
4.5	6 × 2,5 = 15 m; 15 × R36 = R540	**4**	*1 mark per step.*
QUESTION 5 · Similarity and congruence · 2 marks			
5.1	A is congruent — same shape and same size. B is similar — same shape but a different size.	**2**	*1 mark each.*
QUESTION 6 · Transformation geometry · 4 marks			
6.1	a. The flag the same distance (1 square) on the other side of m, pointing the other way. b. Yes — the same shape and the same size.	**3**	*a. 2 marks: 1 for the position, 1 for the flip. b. 1 mark.*
6.2	12 cm	**1**	
QUESTION 7 · Double bar graph · 3 marks			
7.1	a. Apples b. 10 − 6 = 4 c. 8 + 5 + 9 + 6 = 28	**3**	*1 mark each.*
QUESTION 8 · Histogram · 5 marks			
8.1	a. 11 b. 9 + 6 = 15 c. 140–149 d. 4 + 11 + 9 + 6 = 30 e. The intervals follow on each other with no gaps (grouped data).	**5**	*1 mark each.*
QUESTION 9 · Problem solving · 4 marks			
9.1	a. 60 × 30 × 40 = 72 000 cm³ b. 72 ℓ c. 54 ℓ	**4**	*2 marks for a., 1 for b., 1 for c.*
QUESTION 10 · Probability · 5 marks			
10.1	a. White, black, red b. 3/10 c. 2/10 = 20% d. 0 e. White	**5**	*1 mark each.*

Total **55 marks**



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