Mathematics · Grade 7

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	b. 2	**1**	*The diagonals of a rectangle are not lines of symmetry.*
1.2	b. Equilateral	**1**	
1.3	c. $\frac{1}{2}$ × base × height	**1**	
1.4	a. 1 000 cm³	**1**	
1.5	b. perpendicular	**1**	
1.6	a. $\frac{3}{8}$ (6, 7 and 8)	**1**	*3 of the 8 outcomes are greater than 5.*
QUESTION 2 · Geometry of lines and angles · 8 marks			
2.1	35° = acute; 140° = obtuse; 180° = straight; 250° = reflex	**4**	*1 mark each.*
2.2	A = equilateral triangle; B = right-angled triangle; C = scalene triangle; D = isosceles (acute-angled) triangle	**4**	*1 mark each. Accept any correct classification that fits the drawing.*
QUESTION 3 · Geometry of 2D shapes · 8 marks			
3.1	equilateral; isosceles; right-angled	**3**	*1 mark each.*

Question	Answer	Marks	Marking note
3.2	Similar (1) — they have the same shape, but every side of B is twice as long as in A (1).	**2**	*1 mark for 'similar', 1 for the reason (sides in the same ratio 1 : 2 / same shape, different size).*
3.3	Square = four equal sides and four right angles. Parallelogram = two pairs of parallel sides; opposite sides and angles equal. Trapezium = only one pair of parallel sides.	**3**	*1 mark per correct property.*
QUESTION 4 · Perimeter and area of 2D shapes · 8 marks			
4.1	Perimeter = 2(24 + 15) = 78 cm. Area = 24 × 15 = 360 cm²	**3**	*1 mark for perimeter, 2 marks for area with the unit.*
4.2	$\frac{1}{2}$ × 14 × 9 = 63 cm²	**2**	*1 mark for the formula, 1 for the answer with the unit.*
4.3	Perimeter = 2(18 + 11) = 58 m; 58 × 45 = R2 610	**3**	*1 mark for the perimeter, 1 for the multiplication, 1 for the answer.*
QUESTION 5 · Surface area and volume · 8 marks			
5.1	15 × 8 × 6 = 720 cm³	**3**	*1 mark for the formula, 1 for the working, 1 for the unit.*
5.2	One face = 7 × 7 = 49 cm²; 6 × 49 = 294 cm²	**3**	*1 mark for one face, 1 for × 6, 1 for the unit.*
5.3	5 cubic units	**2**	*2 marks for 5 (1 mark if the learner counts 4 or 6 with clear counting).*
QUESTION 6 · Transformations and 3D objects · 6 marks			
6.1	a. 2 b. Similar — the same shape, the angles are equal and every side of Q is twice as long. c. A rectangle 2 squares by 1 square.	**3**	*1 mark each.*
6.2	a. A b. A triangular prism c. 6	**3**	*1 mark each.*
QUESTION 7 · Data handling · 6 marks			
7.1	a. 37 books b. 37 ÷ 5 = 7,4 c. Ordered 4; 6; 7; 9; 11 → median = 7 d. No mode — no value repeats e. 11 − 4 = 7 f. The mean or the median; both are acceptable. The median is better if there is an outlier.	**6**	*1 mark each. For (f) accept any reasoned choice.*

Total **50 marks**



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