Mathematics · Grade 7

Memorandum · Term 1–4

TOTAL 90 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. 7	**1**	
1.2	b. $3 \times 3 \times 3 \times 3 \times 3$	**1**	
1.3	c. 11	**1**	
1.4	b. $-5 ; -2 ; 0 ; 3$	**1**	
1.5	b. scalene	**1**	
1.6	c. mean	**1**	
QUESTION 2 · Integers and exponents · 10 marks			
2.1	a. 5 b. 11 c. −10 d. 11	**4**	*1 mark each.*
2.2	a. 64 b. 16 c. 80	**3**	*1 mark each.*
2.3	$2 \times 2 \times 7 \times 7$	**3**	*2 marks for the method, 1 for the answer.*
QUESTION 3 · Numbers in context · 11 marks			
3.1	HCF = 48; LCM = 288	**2**	*1 mark each.*
3.2	$550 \div 100 \times 32 = R176$	**3**	*2 marks for the method, 1 for the answer.*
3.3	a. $-6 + 15 = 9$ °C b. $9 - 9 = 0$ °C c. $0 - (-6) = 6$ °C	**3**	*1 mark each.*

Question	Answer	Marks	Marking note
3.4	a. $\frac{3}{8}$ = 0,375 = 37,5% b. $\frac{2}{5}$ = 0,4 = 40% c. $\frac{3}{4}$ = 0,75 = 75%	**3**	*1 mark per fraction if both forms are correct.*
QUESTION 4 · Algebraic expressions and graphs · 10 marks			
4.1	a. A b. B c. It decreases — quickly at first, then more slowly. d. Non-linear; the graph is curved, not straight.	**4**	*1 mark each.*
4.2	a. 3(8) + (−2) = 22 b. 8^2 − (−2) = 66	**3**	*1 mark for the substitution, 1 per answer.*
4.3	a. n + 8 b. 9n c. n − 4	**3**	*1 mark each.*
QUESTION 5 · Equations and patterns · 13 marks			
5.1	a. 6x = 48; x = 8 b. x + 3 = 9; x = 6	**3**	*2 marks for a., 1 for b.*
5.2	a. 13 b. 3n + 1 (accept "multiply the figure number by 3 and add 1") c. 3 × 20 + 1 = 61	**3**	*1 mark each.*
5.3	a. y = 4x + 3 b. x = 10 → y = 43; y = 83 → x = 20	**4**	*2 marks for the rule (1 for 4x, 1 for + 3); 1 mark per block in the table.*
5.4	a. 70 + 5 × 10 = R120 b. Cost = 70 + 5n (accept any letter for the cost, e.g. k = 70 + 5n) c. 70 + 5 × 30 = R220	**3**	*1 mark each.*
QUESTION 6 · Lines and 3D objects · 9 marks			
6.1	6 faces; 12 edges; 8 vertices	**2**	*2 marks if all three are correct; 1 if two are correct.*
6.2	a. 8 b. 2 hexagons and 6 rectangles	**2**	*1 mark each.*
6.3	A square with a triangle on each of its four sides. The size need not be exact.	**2**	*1 mark for the square, 1 for the four triangles.*
6.4	a. Perpendicular lines cross at 90°. b. Intersecting lines cross at one point. c. A line segment has two end points; a ray has one end point and carries on.	**3**	*1 mark each.*
QUESTION 7 · Shapes and transformations · 13 marks			
7.1	Three equal sides = equilateral; Two equal sides = isosceles; One angle of 90° = right-angled	**3**	*1 mark each.*
7.2	a. Circumference b. Diameter c. Chord	**3**	*1 mark each.*

Question	Answer	Marks	Marking note
7.3	a. A right-angled triangle with legs of 4 and 6 squares (any position). b. The angles stay the same.	**3**	*1 mark per correct leg in a.; 1 mark for b.*
7.4	a. 3 b. Similar	**2**	*1 mark each.*
7.5	Four equal sides and four right angles. Accept any two correct properties, e.g. opposite sides are parallel; the diagonals are equal and cross at right angles.	**2**	*1 mark each.*
QUESTION 8 · Measurement · 9 marks			
8.1	a. $2 \times (20 + 8) = 56$ cm b. $20 \times 8 = 160$ cm² c. $20 \times 8 \times 3 = 480$ cm³	**4**	*1 mark for the perimeter, 1 for the area, 2 for the volume.*
8.2	a. 600 mm² b. 2 kℓ c. 3 500 cm³	**3**	*1 mark each.*
8.3	Floor = 40 m²; each tile = 0,25 m²; $40 \div 0{,}25 = 160$ tiles	**2**	*1 mark for the areas, 1 for the answer.*
QUESTION 9 · Data Handling · 9 marks			
9.1	a. 11 b. 150–159 c. $3 + 7 = 10$ d. $6 + 3 = 9$ e. The data is grouped in intervals that follow on each other with no gaps.	**5**	*1 mark each.*
9.2	a. Any true conclusion, e.g. "Most learners are between 140 and 169 cm tall." b. 150–159 cm, because that interval has the most learners.	**2**	*1 mark each.*
9.3	a. 1, 2, 3, 4, 5, 6 b. $2/6 = \frac{1}{3}$ (accept 2/6)	**2**	*1 mark each.*

Total **90 marks**



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