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	b. 4	**1**	
1.2	c. 2 × 2 × 2 × 2 × 2	**1**	
1.3	a. −5	**1**	
1.4	c. −8	**1**	
1.5	c. a reflex angle	**1**	
1.6	a. sample	**1**	
QUESTION 2 · Integers and exponents · 10 marks			
2.1	a. 4 b. 3 c. −12 d. 14	**4**	*1 mark each.*
2.2	a. 81 b. 8 c. 89	**3**	*1 mark each.*
2.3	2 × 2 × 2 × 2 × 3 × 5	**3**	*2 marks for the method, 1 for the answer.*
QUESTION 3 · Numbers in context · 11 marks			
3.1	HCF = 30; LCM = 180	**2**	*1 mark each.*
3.2	625 ÷ 100 × 24 = R150	**3**	*2 marks for the method, 1 for the answer.*
3.3	135 ÷ 9 = 15; 60 and 75	**3**	*1 mark for the parts, 1 per amount.*

Question	Answer	Marks	Marking note
3.4	a. $\frac{1}{2}$ = 0,5 = 50% b. $\frac{3}{5}$ = 0,6 = 60% c. $\frac{1}{8}$ = 0,125 = 12,5%	**3**	*1 mark per fraction if both forms are correct.*
QUESTION 4 · Algebraic expressions and graphs · 10 marks			
4.1	a. It increases — she walks away from home. b. Her distance stays the same — she is at the shop. c. C d. Linear (a straight line)	**4**	*1 mark each.*
4.2	a. 3(6) + (−4) = 14 b. 6^2 − (−4) = 40	**3**	*1 mark for the substitution, 1 per answer.*
4.3	a. n + 6 b. 4n c. n − 8	**3**	*1 mark each.*
QUESTION 5 · Equations and patterns · 13 marks			
5.1	a. 5x = 55; x = 11 b. x + 2 = 8; x = 6	**3**	*2 marks for a., 1 for b.*
5.2	32; rule: add 6; 15th term = 8 + 14 × 6 = 92	**3**	*1 mark each.*
5.3	x=1 → y=5; x=4 → y=17; x=7 → y=29; x=10 → y=41	**4**	*1 mark per block.*
5.4	a. 65 + 4 × 15 = R125 b. Cost = 65 + 4n (accept any letter for the cost, e.g. k = 65 + 4n) c. 65 + 4 × 35 = R205	**3**	*1 mark each.*
QUESTION 6 · Lines and 3D objects · 9 marks			
6.1	5 faces; 9 edges; 6 vertices	**2**	*2 marks if all three are correct; 1 if two are correct.*
6.2	a. Square-based pyramid b. Cylinder	**2**	*1 mark each.*
6.3	Any two: a prism has two equal, parallel bases and a pyramid has one base; the side faces of a prism are rectangles and those of a pyramid are triangles; the side faces of a pyramid meet at one point (the apex).	**2**	*1 mark each.*
6.4	a. Perpendicular lines cross at 90°. b. Parallel lines run alongside each other and never meet. 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. Diameter b. Radius c. Segment	**3**	*1 mark each.*

Question	Answer	Marks	Marking note
7.3	Congruent: same shape AND size. Similar: same shape, different size — the angles stay equal and the sides are proportional.	**3**	*1 mark for congruent (same shape and size), 1 for similar (same shape, different size), 1 for: angles equal and sides in proportion.*
7.4	Translation (slide), reflection (mirror) and rotation (turn).	**2**	*2 marks if all three are correct; 1 if two are correct.*
7.5	Four equal sides; opposite sides parallel. Accept any two correct properties, e.g. opposite angles are equal; the diagonals bisect each other at right angles.	**2**	*1 mark each.*
QUESTION 8 · Measurement · 9 marks			
8.1	a. 2 × (18 + 7) = 50 cm b. 18 × 7 = 126 cm² c. 18 × 7 × 5 = 630 cm³	**4**	*1 mark for the perimeter, 1 for the area, 2 for the volume.*
8.2	a. 2 450 m b. 37 500 cm² c. 5 000 cm³	**3**	*1 mark each.*
8.3	Floor = 40 m²; each tile = 0,25 m²; 40 ÷ 0,25 = 160 tiles	**2**	*1 mark for the areas, 1 for the answer.*
QUESTION 9 · Data Handling · 9 marks			
9.1	a. 26,4 b. 26,5 c. 25 d. 10–19: 3; 20–29: 3; 30–39: 4	**5**	*1 mark each for a. to c.; 2 marks for the grouping.*
9.2	Her sample is too small and everyone in it already plays the same sport, so the answers are skewed. She should choose learners at random from all the grades and sports.	**2**	*1 mark for the problem, 1 for the fix.*
9.3	6 + 3 + 3 = 12; chance = 3 out of 12 ($\frac{1}{4}$)	**2**	*1 mark for the total, 1 for the fraction.*

Total **90 marks**



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