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	c. 9	**1**	*−7 + 12 + 4 = 9*
1.2	a. 32	**1**	*$2^5 = 2 \times 2 \times 2 \times 2 \times 2 = 32$*
1.3	b. 17	**1**	
1.4	b. x = −5	**1**	*−5 + 9 = 4*
1.5	c. Graph C	**1**	*The graph decreases, is not a straight line, and levels off.*
1.6	b. 3 : 4	**1**	
QUESTION 2 · Integers and exponents · 10 marks			
2.1	−15 + 8 = −7; −6 − (−11) = 5; 9 + (−14) = −5; −7 − 5 = −12	**4**	*1 mark each.*
2.2	27 + 16 − 32 = 11	**2**	*1 mark for expanding, 1 for the answer.*
2.3	$720 = 2^4 \times 3^2 \times 5$ (also accept $2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 5$)	**2**	*1 mark for the prime factors, 1 for the complete product. Any correct form counts.*
2.4	11 − (−6) = 17 °C	**2**	*1 mark for the working, 1 for the answer.*

Question	Answer	Marks	Marking note
QUESTION 3 · Operations and number sentences · 12 marks			
3.1	738 × 6 = 4 428; 738 × 40 = 29 520; 4 428 + 29 520 = 33 948	**3**	*1 mark per correct line.*
3.2	9 576 ÷ 42 = 228	**3**	*2 marks for the working, 1 for the answer.*
3.3	5,04	**2**	*1 mark for the method, 1 for the position of the comma.*
3.4	$\frac{6}{20} = \frac{3}{10}$	**2**	*1 mark for the multiplication, 1 for simplifying.*
3.5	8 − 5 = 3; $3^2 = 9$; 3 × 9 = 27; 24 − 27 = −3	**2**	*1 mark for the order, 1 for the answer.*
QUESTION 4 · Ratio, percentage and financial mathematics · 10 marks			
4.1	2 + 3 + 4 = 9 parts; 1 260 ÷ 9 = 140; R280 : R420 : R560	**2**	*1 mark for the parts, 1 for all three amounts.*
4.2	Profit = 2 250 − 1 800 = R450; 450 ÷ 1 800 × 100 = 25%	**3**	*1 mark for the profit, 1 for the calculation, 1 for the percentage.*
4.3	5 000 × 8 ÷ 100 = R400 per year; 400 × 3 = R1 200	**3**	*1 mark for the yearly interest, 1 for the multiplication, 1 for the answer.*
4.4	540 ÷ 45 = 12 km per litre	**2**	*1 mark for the working, 1 for the unit.*
QUESTION 5 · Patterns and algebra · 12 marks			
5.1	Term 10 = 32	**3**	*3 marks for Term 10 = 32 (1 for continuing the pattern/showing +3 or 3n + 2 working, 2 for the answer).*
5.2	term = 3n + 2 (accept 3 × n + 2)	**2**	*1 mark for 3n, 1 for + 2.*
5.3	Outputs: −3; −6; −9. Missing input: 12	**3**	*1 mark for −3 and −6, 1 for −9, 1 for the missing input 12 (4 + 8 = 12).*
5.4	x = 7 (1); check: 5 × 7 + 8 = 43 (1).	**2**	*1 mark per step.*
5.5	C = 250 + 180h; C = 250 + 180(4) = R970	**2**	*1 mark for the formula, 1 for the calculation.*

Total **50 marks**



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