Mathematics · Grade 7

Memorandum · Term 1–4

TOTAL
80
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 · 3 marks			
1.1	a. x = −5	**1**	*−5 − 3 = −8*
1.2	b. y = 2(x + 5)	**1**	*No expanding is required.*
1.3	c. 7	**1**	
QUESTION 2 · Matching · 4 marks			
2.1	1 = C (variable); 2 = A (equation); 3 = E (constant); 4 = B (term)	**4**	*1 mark each.*
QUESTION 3 · Short questions · 2 marks			
3.1	y = 9 + 1 = 10	**1**	
3.2	x = 4	**1**	*Accept any correct method, e.g. 4 − 6 = −2.*
QUESTION 4 · Patterns, algebra and graphs · 12 marks			
4.1	Term 4 = 19; Term 6 = 29; Term 10 = 49	**3**	*1 mark each.*
4.2	term = 5n − 1 (accept 5 × n − 1)	**2**	*1 mark for 5n, 1 for − 1.*
4.3	a. 125 b. term = position × position × position (the cube of the position) c. 1 000	**3**	*1 mark each.*
4.4	x = 8; check: 6 × 8 + 7 = 55	**2**	*1 mark for the answer, 1 for the check.*

Question	Answer	Marks	Marking note
4.5	C = 300 + 220h; 300 + 660 = R960	**2**	*1 mark for the formula, 1 for the calculation.*
QUESTION 5 · Expressions with integers · 5 marks			
5.1	a. −4 + 6 = 2 b. 6 − (−4) = 10	**2**	*1 mark each.*
5.2	a. T − 9 b. k − (−3) (also accept k + 3)	**2**	*1 mark each.*
5.3	x = 9	**1**	*Accept any correct method, e.g. 3 × 9 − 4 = 23.*
QUESTION 6 · Numeric and geometric patterns · 5 marks			
6.1	−4 ; −7	**2**	*1 mark each.*
6.2	Subtract 3 each time (add −3).	**1**	
6.3	Missing input: 10 (37 + 3 = 40; 40 ÷ 4 = 10). Missing output: −3	**2**	*1 mark each.*
QUESTION 7 · Functions and relationships · 2 marks			
7.1	x = 5 → y = 0; x = 8 → y = −3	**2**	*1 mark each.*
QUESTION 8 · Graphs · 3 marks			
8.1	a. A b. B c. C	**3**	*1 mark each.*
QUESTION 9 · Equations · 7 marks			
9.1	a. x = 7 b. x = 10 c. x = 20	**3**	*1 mark each. Accept any correct method, e.g. 4 × 7 + 5 = 33.*
9.2	a. 2(3) − 3(−2) = 6 + 6 = 12 b. 3^2 + (−2) = 9 − 2 = 7	**2**	*1 mark each.*
9.3	3x − 4 = 26; 3x = 30; x = 10	**2**	*1 mark for the equation, 1 for the solution.*
QUESTION 10 · Missing values in a table · 3 marks			
10.1	a = 11; b = 23; c = 43	**3**	*1 mark each.*
QUESTION 11 · Algebraic expressions and equations · 12 marks			
11.1	a. x and y b. 9 c. 14 − 4 + 9 = 19	**3**	*1 mark each.*
11.2	a. 4 + (−3) = 1 b. 4^2 − (−3) = 16 + 3 = 19	**2**	*1 mark each.*

Question	Answer	Marks	Marking note
11.3	a. x = 7 (8 × 7 + 5 = 61) b. x = 5 (4 × 5 + 9 = 29)	**4**	*2 marks each: 1 for the method, 1 for the answer. A correct check by substitution earns the method mark.*
11.4	6x + 5 = 47 (or 6 × ☐ + 5 = 47); 6 × 7 = 42; x = 7	**3**	*1 mark per step.*
QUESTION 12 · More patterns and algebra · 12 marks			
12.1	a. −5 b. 6 c. −2 d. 0	**4**	*1 mark each.*
12.2	a. n + 7 b. 5n c. n − 3	**3**	*1 mark each.*
12.3	a. 9 b. 2n + 1 c. 21	**3**	*1 mark each.*
12.4	x + 2 = 18 ÷ 3 = 6; x = 4 (also accept 3x + 6 = 18; 3x = 12; x = 4)	**2**	*1 mark per step.*
QUESTION 13 · Equations and graphs · 10 marks			
13.1	a. x = 9 b. x = 6 c. x = 15 d. x = 8	**4**	*1 mark each. Accept any correct method, e.g. 2 × 8 − 5 = 11.*
13.2	A rising straight line, then a horizontal part, then a steeper rising straight line.	**3**	*1 mark per part. No numbers are required.*
13.3	a. 15 + 4 × 12 = R63 b. F = 15 + 4k (any letter) c. 15 + 120 = R135	**3**	*1 mark each.*

Total **80 marks**



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