Mathematics · Grade 7

Memorandum · Term 1–4

TOTAL
71
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 · True or false · 5 marks			
1.1	1. True 2. False 3. False 4. True 5. True	**5**	*1 mark each.*
QUESTION 2 · Short questions · 15 marks			
2.1	−7	**1**	
2.2	5	**1**	
2.3	−8	**1**	
2.4	13	**1**	
2.5	3^4	**1**	
2.6	52	**1**	
2.7	3/5	**1**	
2.8	0,375	**1**	
2.9	R90	**1**	
2.10	x = −11	**1**	*Accept any correct method, e.g. −11 + 4 = −7.*
2.11	x = 8	**1**	*Accept any correct method, e.g. 8 + 9 = 17. A correct check by substitution earns the mark.*

Question	Answer	Marks	Marking note
2.12	3 : 4	**1**	
2.13	12,36	**1**	
2.14	600 000 000 + 7 000 000 + 80 000 + 50	**1**	*All the parts are needed for the mark.*
2.15	7	**1**	
QUESTION 3 · Exponents and square roots · 3 marks			
3.1	32	**2**	*1 mark per step.*
3.2	9 + 4 = 13	**1**	
QUESTION 4 · Multiples and factors · 5 marks			
4.1	1, 2, 3, 4, 6, 9, 12, 18, 36	**2**	*1 mark per step.*
4.2	7, 14, 21, 28	**1**	
4.3	$84 = 2^2 \times 3 \times 7$	**2**	*1 mark per step.*
QUESTION 5 · Ratio and rate · 4 marks			
5.1	3 + 5 = 8 parts; 960 ÷ 8 = 120; R360 and R600	**2**	*1 mark per step.*
5.2	315 ÷ 3,5 = 90 km/h (also accept 630 ÷ 7)	**2**	*1 mark for the working, 1 for the answer with the unit.*
QUESTION 6 · Financial mathematics · 3 marks			
6.1	30% of R12 500 = R3 750; R3 750 + R2 850 = R6 600; R12 500 − R6 600 = R5 900	**3**	*1 mark per step.*
QUESTION 7 · Fractions · 3 marks			
7.1	10/15 + 3/15 = 13/15	**2**	*1 mark per step.*
7.2	$\frac{3}{4} \times \frac{4}{5} = 12/20 = 3/5$	**1**	
QUESTION 8 · Functions and relationships · 2 marks			
8.1	p = 4 → T = 5; p = 7 → T = 11	**2**	*1 mark each.*
QUESTION 9 · Percentages · 5 marks			
9.1	15% of 1 250 = R187,50; 1 250 − 187,50 = R1 062,50	**3**	*1 mark per step.*
9.2	34 ÷ 40 × 100 = 85%	**2**	*1 mark per step.*

Question	Answer	Marks	Marking note
QUESTION 10 · Functions, patterns and equations · 5 marks			
10.1	a. $y = 3x - 4$ (accept $3 \times x - 4$) b. Yes: $3 \times 1 - 4 = -1$	**2**	*1 mark each.*
10.2	a. 36 b. 144 — the term is the position squared (position × position, 12 × 12)	**2**	*1 mark each.*
10.3	$x = 7$	**1**	*Accept any correct method, e.g. $4 \times 7 - 7 = 21$.*
QUESTION 11 · Numeric and geometric patterns · 5 marks			
11.1	47 ; 95	**2**	*1 mark per step.*
11.2	× 2 + 1	**1**	
11.3	7 blocks in a row.	**2**	*1 mark each.*
QUESTION 12 · Negative numbers · 9 marks			
12.1	−11; −7; −2; 0; 3; 5	**3**	*3 marks for the complete correct order.*
12.2	a. 3 b. −6 c. −10	**3**	*1 mark each.*
12.3	$11 - (-3) = 11 + 3 = 14$ °C	**3**	*1 mark for the setup, 2 for the answer.*
QUESTION 13 · Integers in patterns, flow diagrams and graphs · 7 marks			
13.1	a. −5 ; −9 b. Subtract 4 each time (add −4).	**3**	*1 mark per term, 1 for the rule.*
13.2	a. −13 b. 7	**2**	*1 mark each.*
13.3	A rising straight line, then a horizontal line, then a falling line steeper than the rising part, ending at zero.	**2**	*1 mark for the rising line and the horizontal part, 1 for the steeper fall to zero. Do not require numbers or a scale.*

Total **71 marks**



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