Mathematics · Grade 7

Memorandum · Term 1–4

TOTAL
95
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 · 4 marks			
1.1	a. −3	**1**	*The distance from −9 to 3 is 12; half of it is 6, and −9 + 6 = −3.*
1.2	b. 4	**1**	*4 × 4 × 4 = 64*
1.3	b. R91	**1**	
1.4	c. 2 : 3	**1**	
QUESTION 2 · Matching · 4 marks			
2.1	1 = C (prime number); 2 = A (square root); 3 = E (percentage); 4 = B (negative number)	**4**	*1 mark each.*
QUESTION 3 · True or false · 5 marks			
3.1	1. True 2. False 3. True 4. True 5. False	**5**	*1 mark each.*
QUESTION 4 · Short questions · 13 marks			
4.1	−14	**1**	
4.2	7	**1**	
4.3	8	**1**	
4.4	15	**1**	
4.5	5^6	**1**	

Question	Answer	Marks	Marking note
4.6	16 + 16 = 32	**1**	
4.7	9/20	**1**	
4.8	0,35	**1**	
4.9	R186	**1**	
4.10	3 : 8	**1**	
4.11	470 369 000	**1**	
4.12	300 000 000 + 8 000 000 + 4 000 + 60	**1**	*All the parts are needed for the mark.*
4.13	13	**1**	
QUESTION 5 · Integers and exponents · 10 marks			
5.1	−21 + 6 = −15; −9 − (−17) = 8; 14 + (−20) = −6; −8 − 9 = −17	**4**	*1 mark each.*
5.2	32 − 27 + 36 = 41	**2**	*1 mark for expanding, 1 for the answer.*
5.3	540 = $2^2 \times 3^3 \times 5$ (accept 2 × 2 × 3 × 3 × 3 × 5)	**2**	*1 mark for the factors, 1 for exponent form.*
5.4	19 − (−4) = 23 °C	**2**	*1 mark for the working, 1 for the answer.*
QUESTION 6 · Exponents and square roots · 3 marks			
6.1	32	**2**	*1 mark per step.*
6.2	12 − 6 = 6	**1**	
QUESTION 7 · Negative numbers · 9 marks			
7.1	−12; −8; −3; 0; 4; 9	**3**	*3 marks for the complete correct order.*
7.2	a. −5 b. −7 c. −13	**3**	*1 mark each.*
7.3	9 − 13 = −4 °C	**3**	*1 mark for the setup, 2 for the answer.*
QUESTION 8 · Operations and number sentences · 12 marks			
8.1	649 × 8 = 5 192; 649 × 50 = 32 450; 5 192 + 32 450 = 37 642	**3**	*1 mark per correct line.*

Question	Answer	Marks	Marking note
8.2	87 − 68 = 19 (34 × 2); 190 − 170 = 20 (34 × 5); 204 − 204 = 0 (34 × 6) → 8 704 ÷ 34 = 256	**3**	*2 marks for the working, 1 for the answer.*
8.3	325 × 6 = 1 950; 3 decimal places → 1,95 (accept 1,950)	**2**	*1 mark for the method, 1 for the position of the comma.*
8.4	5/2 × 4/5 = 20/10 = 2	**2**	*1 mark for 5/2, 1 for the answer 2.*
8.5	$4^2 = 16$; 2 × 16 = 32; 30 − 32 = −2	**2**	*1 mark for the order, 1 for the answer.*
QUESTION 9 · Multiples and factors · 5 marks			
9.1	1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60	**2**	*2 marks for all twelve factors; 1 mark if only one is missing or wrong.*
9.2	9, 18, 27, 36	**1**	
9.3	$252 = 2^2 \times 3^2 \times 7$ (also accept 2 × 2 × 3 × 3 × 7)	**2**	*1 mark for the prime factors, 1 for the complete product. Any correct form counts.*
QUESTION 10 · Fractions · 3 marks			
10.1	9/12 + 10/12 = 19/12 = 1 7/12 (accept 19/12)	**2**	*1 mark per step.*
10.2	14	**1**	
QUESTION 11 · Ratio, percentage and financial mathematics · 10 marks			
11.1	1 + 2 + 3 = 6 parts; 1 500 ÷ 6 = 250; R250 : R500 : R750	**2**	*1 mark for the parts, 1 for all three amounts.*
11.2	Increase = 84 − 60 = R24; 24 ÷ 60 × 100; 40%	**3**	*1 mark per step.*
11.3	12% of 2 400 = R288 per year; 288 × 2 = R576; 2 400 + 576 = R2 976	**3**	*1 mark per step.*
11.4	R6,40 per 100 g against R6,00 per 100 g; the 750 g bag	**2**	*1 mark for the comparison, 1 for the choice.*
QUESTION 12 · Ratio and rate · 4 marks			
12.1	3 + 5 = 8 parts; 40 ÷ 8 = 5; 5 × 5 = 25 girls	**2**	*1 mark per step.*
12.2	252 ÷ 3 = 84 km/h	**2**	*1 mark per step.*
QUESTION 13 · Percentages · 5 marks			
13.1	15% of 3 200 = R480; 3 200 − 480 = R2 720	**3**	*1 mark per step.*

Question	Answer	Marks	Marking note
13.2	27 ÷ 45 × 100 = 60%	**2**	*1 mark per step.*
QUESTION 14 · Financial mathematics · 3 marks			
14.1	Loss = 1 200 − 960 = R240; 240 ÷ 1 200 × 100 = 20%	**3**	*1 mark per step.*
QUESTION 15 · Writing and rounding numbers · 5 marks			
15.1	a. 305 040 009 b. 60 200 070	**2**	*1 mark each.*
15.2	a. 3,48 b. 12,83 c. 0,60	**3**	*1 mark each.*

Total **95 marks**



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