Mathematics · Grade 6

Memorandum · Term 1–4

TOTAL
100
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. 100 000	**1**	
1.2	a. 2	**1**	
1.3	b. 24%	**1**	
1.4	a. 37 × 9 = 9 × 37	**1**	
1.5	a. 1 000	**1**	
1.6	b. mode	**1**	
QUESTION 2 · Large numbers · 7 marks			
2.1	325 000; 330 000; 335 000	**2**	*1 mark for two correct, 2 for all three.*
2.2	a. 2 963 200 b. 2 960 000 c. 3 000 000	**3**	*1 mark each.*
2.3	a. 2 963 157 > 1 275 894 b. 1 275 894 < 2 963 157	**2**	*1 mark each.*
QUESTION 3 · Operations · 15 marks			
3.1	4 239 051	**3**	*2 marks for the method, 1 for the answer.*
3.2	1 687 263; check: 1 687 263 + 1 275 894 = 2 963 157	**3**	*2 marks for the answer, 1 for the check.*

Question	Answer	Marks	Marking note
3.3	310 075	**3**	*2 marks for the method, 1 for the answer.*
3.4	148 × 50 = 7 400; 7 548 − 7 400 = 148; 148 × 1 = 148; so 7 548 ÷ 148 = 51	**3**	*2 marks for the long-division working, 1 for the answer.*
3.5	a. 35 b. 60 c. 8	**3**	*1 mark each.*
QUESTION 4 · Factors, multiples and prime factors · 9 marks			
4.1	1; 2; 3; 4; 5; 6; 10; 12; 15; 20; 30; 60	**2**	*2 marks if all are correct; 1 if half are correct.*
4.2	30	**2**	*1 mark for the method, 1 for the answer.*
4.3	180	**2**	*1 mark for the method, 1 for the answer.*
4.4	2 × 3 × 3 × 7	**3**	*2 marks for the method, 1 for the answer.*
QUESTION 5 · Fractions, decimals and percentages · 10 marks			
5.1	345 ÷ 5 = 69; 69 × 3 = 207	**2**	*1 mark for the working, 1 for the answer.*
5.2	750 ÷ 100 × 12 = R90	**3**	*2 marks for the method, 1 for the answer.*
5.3	a. R3 900 − R3 000 = R900 b. 10% of R3 900 = R3 900 ÷ 10 = R390	**3**	*1 mark for the profit; 2 for the discount (1 for the method, 1 for the answer).*
5.4	10/12 − 3/12 = 7/12	**2**	*1 mark for the common denominator, 1 for the answer.*
QUESTION 6 · Ratio and problem solving · 3 marks			
6.1	132 ÷ 11 = 12; 60 and 72	**3**	*1 mark for the parts, 1 per amount.*
QUESTION 7 · Patterns, functions and algebra · 10 marks			
7.1	16 ; 22. The rule: the number that is added gets 1 bigger each time (+1, +2, +3, +4, …).	**3**	*1 mark per number, 1 for the rule.*
7.2	16, 22, 29, 37, 46, 56 → the 11th term (56)	**2**	*1 mark for the working, 1 for the answer.*
7.3	The rule: multiply by 4 and add 1. The missing output is 49.	**3**	*2 marks for the rule (1 for × 4, 1 for + 1), 1 for the missing output.*

Question	Answer	Marks	Marking note
7.4	a. 7 b. 12	**2**	*1 mark each.*
QUESTION 8 · Space and Shape · 15 marks			
8.1	a. An octagon b. A heptagon c. A and D	**4**	*1 mark for a, 1 for b, 2 for c (1 per correct letter; if more than two letters are given, maximum 1).*
8.2	Cube: 6, 12, 8; Triangular prism: 5, 9, 6	**4**	*2 marks per object.*
8.3	a. A (regular) hexagon b. 6 c. In a beehive (honeycomb); accept another correct example, for example a tortoise shell	**3**	*1 mark each.*
8.4	Four equal sides; four right angles; opposite sides parallel.	**2**	*1 mark each.*
8.5	A rotation. The shape keeps the same size and shape.	**2**	*1 mark for the name, 1 for saying that the size and shape stay the same.*
QUESTION 9 · Measurement · 15 marks			
9.1	a. 1,75 kg b. 1 750 g c. 2 500 − 1 750 = 750 g	**3**	*1 mark each.*
9.2	a. 2 × (32 + 15) = 94 m b. 32 × 15 = 480 m²	**4**	*2 marks each.*
9.3	a. 4 × 3 = 12 b. 12 × 2 layers = 24 cubes = 24 cm³	**3**	*1 mark for a; 2 for b (1 for the 24 cubes, 1 for the answer with the unit cm³).*
9.4	1,08 kg; 1 250 g; 1 350 g; 1,4 kg	**3**	*1 mark for the conversion, 2 for the order.*
9.5	a. 3 600 mℓ b. 5 400 g	**2**	*1 mark each.*
QUESTION 10 · Data Handling · 10 marks			
10.1	a. A tap inside the house b. 15% c. 25% of 400 = 100 d. 10% of 400 = 40 e. $\frac{1}{2}$	**5**	*1 mark each.*
10.2	Smallest to largest: 11 ; 15 ; 19 ; 22 ; 22; Mode: 22; Median: 19	**3**	*1 mark each.*
10.3	a. 10 b. Yellow (8 times)	**2**	*1 mark each.*

Total **100 marks**



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