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	a. 70 000 000	**1**	
1.2	a. 2	**1**	
1.3	b. 37,5%	**1**	
1.4	c. reflex angle	**1**	
1.5	a. 1 000	**1**	
1.6	b. median	**1**	
QUESTION 2 · Large numbers · 7 marks			
2.1	151 000; 153 500; 156 000	**2**	*1 mark for two correct, 2 for all three.*
2.2	a. 4 587 215 b. 4 587 200 c. 4 587 000	**3**	*1 mark each.*
2.3	a. 4 587 213 > 1 968 457 b. 1 968 457 < 4 587 213	**2**	*1 mark each.*
QUESTION 3 · Operations · 15 marks			
3.1	6 555 670	**3**	*2 marks for the method, 1 for the answer.*
3.2	2 618 756; Check: 2 618 756 + 1 968 457 = 4 587 213	**3**	*2 marks for the answer, 1 for the check.*
3.3	410 004	**3**	*2 marks for the method, 1 for the answer.*
3.4	168 × 50 = 8 400; 8 736 − 8 400 = 336; 168 × 2 = 336; 8 736 ÷ 168 = 52	**3**	*2 marks for the working, 1 for 52. Check: 168 × 52 = 8 736.*

Question	Answer	Marks	Marking note
3.5	a. 38 b. 60 c. 7	**3**	*1 mark each.*
QUESTION 4 · Factors, multiples and prime factors · 9 marks			
4.1	1; 2; 3; 4; 6; 7; 12; 14; 21; 28; 42; 84	**2**	*2 marks if all are correct; 1 if half are correct.*
4.2	42	**2**	*1 mark for the method, 1 for the answer.*
4.3	252	**2**	*1 mark for the method, 1 for the answer.*
4.4	2 × 2 × 3 × 7	**3**	*2 marks for the method, 1 for the answer.*
QUESTION 5 · Fractions, decimals and percentages · 10 marks			
5.1	3/8	**2**	*1 mark for the fraction, 1 for the simplification.*
5.2	840 ÷ 100 × 15 = R126	**3**	*2 marks for the method, 1 for the answer.*
5.3	a. R1 750 − R1 400 = R350 b. 6 × R350 = R2 100	**3**	*1 mark for the profit, 2 for the total (1 for the working, 1 for the answer).*
5.4	$3\frac{1}{2} = 3\ 2/4 = 2\ 6/4$; $2\ 6/4 - 1\ 3/4 = 1\frac{3}{4}$	**2**	*1 mark for the working, 1 for the answer. Also accept counting back: $3\frac{1}{2} - 1 = 2\frac{1}{2}$; $2\frac{1}{2} - \frac{3}{4} = 1\frac{3}{4}$.*
QUESTION 6 · Ratio and problem solving · 3 marks			
6.1	96 ÷ 8 = 12; 36 and 60	**3**	*1 mark for the parts, 1 per amount.*
QUESTION 7 · Patterns, functions and algebra · 10 marks			
7.1	51 ; 62. The rule: add 11 each time.	**3**	*1 mark per number, 1 for the rule.*
7.2	7 + 19 × 11 = 216	**2**	*1 mark for the method, 1 for the answer.*
7.3	3 → 19; 6 → 34; 11 → 59; 15 → 79	**3**	*3 marks if all four are correct; 2 if three are correct; 1 if one or two are correct.*
7.4	a. 6 b. 12	**2**	*1 mark each.*

Question	Answer	Marks	Marking note
QUESTION 8 · Space and Shape · 15 marks			
8.1	smaller than a right angle = acute; exactly a quarter turn = right; bigger than a right angle but smaller than a straight angle = obtuse; bigger than a straight angle but smaller than a full turn = reflex	**4**	*1 mark each.*
8.2	Cube: 6, 12, 8; Rectangular prism: 6, 12, 8	**4**	*2 marks per object: 2 if all three values are correct; 1 mark if two are correct.*
8.3	a. 5 b. 8 c. 5	**3**	*1 mark each.*
8.4	Any two of: two pairs of parallel sides; opposite sides equal; opposite angles equal; the diagonals bisect each other.	**2**	*1 mark each.*
8.5	A rotation (1). The size and shape stay the same – the image is congruent to the original (1).	**2**	*1 mark for the name, 1 mark for stating that size and shape do not change.*
QUESTION 9 · Measurement · 15 marks			
9.1	3 hours and 45 minutes (225 minutes)	**3**	*2 marks for the method, 1 for the answer.*
9.2	a. $2 \times (28 + 16) = 88$ m b. $28 \times 16 = 448$ m²	**4**	*2 marks each.*
9.3	$6 \times 4 \times 3 = 72$ cm³	**3**	*2 marks for the method, 1 for the answer.*
9.4	10 000 g (10 kg); 10,12 kg; 10,3 kg; 10,5 kg	**3**	*1 mark for the conversion, 2 for the order.*
9.5	a. 2 500 mℓ b. 3 750 g	**2**	*1 mark each.*
QUESTION 10 · Data Handling · 10 marks			
10.1	a. 122 b. 31 c. 18 d. 6A and 6B e. 24	**5**	*1 mark each. For d: 24 + 31 = 55; no other pair makes 55.*
10.2	Smallest to largest: 15 ; 17 ; 19 ; 21 ; 23 ; 23 ; 26. Mode: 23; Median: 21	**3**	*1 mark each.*
10.3	5 out of 8 ($\frac{5}{8}$)	**2**	*1 mark for the total of 8, 1 for the fraction.*

Total **100 marks**



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