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. 200 000	**1**	
1.2	b. 2	**1**	
1.3	c. 28%	**1**	
1.4	c. 8	**1**	
1.5	a. 10	**1**	
1.6	c. mode	**1**	
QUESTION 2 · Large numbers · 7 marks			
2.1	240 000; 244 000; 248 000	**2**	*1 mark for two correct, 2 for all three.*
2.2	a. 3 856 900 b. 3 856 925 c. 4 000 000	**3**	*1 mark each.*
2.3	a. 3 856 924 > 1 547 283 b. 1 547 283 < 3 856 924	**2**	*1 mark each.*
QUESTION 3 · Operations · 15 marks			
3.1	5 404 207	**3**	*2 marks for the method, 1 for the answer.*
3.2	2 309 641; check: 2 309 641 + 1 547 283 = 3 856 924	**3**	*2 marks for the answer, 1 for the check.*

Question	Answer	Marks	Marking note
3.3	409 981	**3**	*2 marks for the method, 1 for the answer.*
3.4	135 × 60 = 8 100; 9 315 − 8 100 = 1 215; 135 × 9 = 1 215; so 9 315 ÷ 135 = 69 (check: 135 × 69 = 9 315)	**3**	*2 marks for the long-division working, 1 for the answer.*
3.5	a. 47 b. 45 c. 8	**3**	*1 mark each.*
QUESTION 4 · Factors, multiples and prime factors · 9 marks			
4.1	1; 2; 3; 4; 6; 8; 9; 12; 18; 24; 36; 72	**2**	*2 marks if all are correct; 1 if half are correct.*
4.2	36	**2**	*1 mark for the method, 1 for the answer.*
4.3	216	**2**	*1 mark for the method, 1 for the answer.*
4.4	2 × 3 × 3 × 5	**3**	*2 marks for the method, 1 for the answer.*
QUESTION 5 · Fractions, decimals and percentages · 10 marks			
5.1	0,45 and 45%	**2**	*1 mark for the decimal fraction, 1 for the percentage. 9/20 = 45/100.*
5.2	650 ÷ 100 × 20 = R130	**3**	*2 marks for the method, 1 for the answer.*
5.3	a. R2 750 − R2 200 = R550 b. 10% of R2 750 = R2 750 ÷ 10 = R275	**3**	*1 mark for the profit; 2 for the discount (1 for the method, 1 for the answer).*
5.4	$\frac{3}{4} - \frac{1}{4} = \frac{1}{2}$	**2**	*1 mark for the method, 1 for the answer.*
QUESTION 6 · Ratio and problem solving · 3 marks			
6.1	108 ÷ 9 = 12; 24 and 84	**3**	*1 mark for the parts, 1 per amount.*
QUESTION 7 · Patterns, functions and algebra · 10 marks			
7.1	41 ; 49. The rule: add 8 each time.	**3**	*1 mark per number, 1 for the rule.*
7.2	9 + 19 × 8 = 161	**2**	*1 mark for the method, 1 for the answer.*
7.3	3 → 21; 6 → 39; 11 → 69; 15 → 93	**3**	*3 marks if all four are correct; 2 if three are correct; 1 if one or two are correct.*

Question	Answer	Marks	Marking note
7.4	a. 6 b. 12	**2**	*1 mark each.*
QUESTION 8 · Space and Shape · 15 marks			
8.1	3 o'clock = right; 6 o'clock = straight; 1 o'clock = acute; 5 o'clock = obtuse	**4**	*1 mark each.*
8.2	Rectangular prism: 6, 12, 8; Triangular prism: 5, 9, 6	**4**	*2 marks per object.*
8.3	a. 3 cm, 4 cm and 5 cm b. The same c. Yes — the same shape, a smaller size	**3**	*1 mark each.*
8.4	Any two of: Four equal sides; opposite sides parallel; opposite angles equal.	**2**	*1 mark each.*
8.5	A reflection. 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	3 hours and 50 minutes (230 minutes)	**3**	*2 marks for the method, 1 for the answer.*
9.2	a. $2 \times (35 + 12) = 94$ m b. $35 \times 12 = 420$ m²	**4**	*2 marks each.*
9.3	$8 \times 5 \times 2 = 80$ cm³	**3**	*2 marks for the method, 1 for the answer.*
9.4	2 080 g (2,08 kg); 2 500 g (2,5 kg); 2,75 kg; 2,9 kg	**3**	*1 mark for the conversion, 2 for the order.*
9.5	a. 1 800 mℓ b. 2 250 g	**2**	*1 mark each.*
QUESTION 10 · Data Handling · 10 marks			
10.1	a. 14 b. Netball c. Netball and swimming d. 30 + 32 = 62 e. Any true conclusion, for example "Soccer is the most popular with the boys and netball with the girls."	**5**	*1 mark each. Both sports are needed in c.*
10.2	Smallest to largest: 9 ; 12 ; 14 ; 17 ; 17; Mode: 17; Median: 14	**3**	*1 mark each.*
10.3	a. 1, 2, 3, 4, 5, 6 b. Equally likely	**2**	*1 mark each. All six outcomes are needed in a.*

Total **100 marks**



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