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. 90 000 000	**1**	
1.2	c. 2	**1**	
1.3	a. 75%	**1**	
1.4	b. 345 680	**1**	
1.5	c. 1 000	**1**	
1.6	a. median	**1**	
QUESTION 2 · Large numbers · 7 marks			
2.1	177 500; 180 000; 182 500	**2**	*1 mark for two correct, 2 for all three.*
2.2	a. 5 271 400 b. 5 270 000 c. 5 000 000	**3**	*1 mark each.*
2.3	a. 5 271 438 > 2 839 516 b. 2 839 516 < 5 271 438	**2**	*1 mark each.*
QUESTION 3 · Operations · 15 marks			
3.1	8 110 954	**3**	*2 marks for the method, 1 for the answer.*
3.2	2 431 922; check: 2 431 922 + 2 839 516 = 5 271 438	**3**	*2 marks for the answer, 1 for the check.*

Question	Answer	Marks	Marking note
3.3	487 576	**3**	*2 marks for the method, 1 for the answer.*
3.4	204 × 40 = 8 160; 8 772 − 8 160 = 612; 204 × 3 = 612; so 8 772 ÷ 204 = 43 (check: 204 × 43 = 8 772)	**3**	*2 marks for the long-division working, 1 for the answer.*
3.5	a. 42 b. 75 c. 6	**3**	*1 mark each.*
QUESTION 4 · Factors, multiples and prime factors · 9 marks			
4.1	1; 2; 3; 4; 6; 8; 12; 16; 24; 32; 48; 96	**2**	*2 marks if all are correct; 1 if half are correct.*
4.2	48	**2**	*1 mark for the method, 1 for the answer.*
4.3	288	**2**	*1 mark for the method, 1 for the answer.*
4.4	2 × 2 × 2 × 3 × 5	**3**	*2 marks for the method, 1 for the answer.*
QUESTION 5 · Fractions, decimals and percentages · 10 marks			
5.1	27/100 ; 3/10 ; 31/100 (3/10 = 30/100)	**2**	*2 marks if all three are in the right order; 1 mark if one pair is swapped.*
5.2	480 ÷ 100 × 25 = R120	**3**	*2 marks for the method, 1 for the answer.*
5.3	a. 1,75 + 2,4 = 4,15 kg b. 5 − 4,15 = 0,85 kg = 850 g	**3**	*1 mark for a; 2 for b (1 for the mass in kilograms, 1 for the mass in grams).*
5.4	$\frac{3}{5} - \frac{1}{5} = \frac{2}{5}$	**2**	*1 mark for the method, 1 for the answer.*
QUESTION 6 · Ratio and problem solving · 3 marks			
6.1	130 ÷ 13 = 10; 40 and 90	**3**	*1 mark for the parts, 1 per amount.*
QUESTION 7 · Patterns, functions and algebra · 10 marks			
7.1	405 ; 1 215. The rule: multiply by 3 each time.	**3**	*1 mark per number, 1 for the rule.*
7.2	1 215 × 3 = 3 645, so yes	**2**	*1 mark for the working, 1 for "yes".*
7.3	3 → 21; 6 → 33; 11 → 53; 15 → 69	**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	$6 \times \square + 15 = 87$ (also accept $87 - 15 = 6 \times \square$); $\square$ = 12 pens	**2**	*1 mark for the number sentence, 1 for the answer.*
QUESTION 8 · Space and Shape · 15 marks			
8.1	a. A b. B c. C d. D	**4**	*1 mark each.*
8.2	Triangular prism: 5, 9, 6; Cube: 6, 12, 8	**4**	*2 marks per object.*
8.3	a. The ▲ b. B2 c. 3 blocks right and 2 blocks up (either order)	**3**	*1 mark each.*
8.4	Four right angles; opposite sides equal and parallel.	**2**	*1 mark each.*
8.5	A translation. 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. 14 °C b. 32 °C c. 18 °C	**3**	*1 mark each. The unit °C is needed in a and b.*
9.2	a. 14 cm² b. 6 + 3 + 2 + 2 + 2 + 2 + 2 + 3 = 22 cm	**4**	*a: 1 mark for the counting, 1 for the answer with its unit. b: 1 mark for the method, 1 for the answer with its unit.*
9.3	$7 \times 3 \times 4 = 84$ cm³	**3**	*2 marks for the method, 1 for the answer.*
9.4	4 900 g (4,9 kg); 5 050 g (5,05 kg); 5,15 kg (5 150 g); 5,2 kg (5 200 g)	**3**	*1 mark for the conversion, 2 for the order.*
9.5	a. 345 cm b. 1 500 g	**2**	*1 mark each.*
QUESTION 10 · Data Handling · 10 marks			
10.1	a. They walk b. 20% c. 40% of 200 = 80 d. 15% of 200 = 30 e. $\frac{1}{4}$ (25% = $\frac{1}{4}$) (also accept 25/100 or 50/200 for e.)	**5**	*1 mark each.*
10.2	Smallest to largest: 18 ; 18 ; 23 ; 27 ; 31; Mode: 18; Median: 23	**3**	*1 mark each.*

Question	Answer	Marks	Marking note
10.3	a. 23 b. No — on every toss heads and tails have the same chance; the coin does not remember what came before.	**2**	*1 mark each.*

Total **100 marks**



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