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. 800 000	**1**	
1.2	b. 2	**1**	
1.3	c. 55%	**1**	
1.4	b. 37 °C	**1**	
1.5	a. 47 + 0 = 47	**1**	
1.6	c. median	**1**	
QUESTION 2 · Large numbers · 7 marks			
2.1	195 000; 197 500; 200 000	**2**	*1 mark for two correct, 2 for all three.*
2.2	a. 6 148 300 b. 6 148 330 c. 6 000 000	**3**	*1 mark each.*
2.3	a. 6 148 329 > 2 456 037 b. 2 456 037 < 6 148 329	**2**	*1 mark each.*
QUESTION 3 · Operations · 15 marks			
3.1	8 604 366	**3**	*2 marks for the method, 1 for the answer.*
3.2	3 692 292; check: 3 692 292 + 2 456 037 = 6 148 329	**3**	*2 marks for the answer, 1 for the check.*
3.3	468 072	**3**	*2 marks for the method, 1 for the answer.*

Question	Answer	Marks	Marking note
3.4	a. 125 × 30 = 3 750; 4 950 − 3 750 = 1 200; 125 × 9 = 1 125; 1 200 − 1 125 = 75 → 39 remainder 75 b. 40 boxes	**3**	*a: 1 mark for the working, 1 for "39 remainder 75". b: 1 mark — the 75 books left over need one more box.*
3.5	a. 43 b. 45 c. 9	**3**	*1 mark each.*
QUESTION 4 · Factors, multiples and prime factors · 9 marks			
4.1	1; 2; 3; 4; 6; 9; 12; 18; 27; 36; 54; 108	**2**	*2 marks if all are correct; 1 if half are correct.*
4.2	54	**2**	*1 mark for the method, 1 for the answer.*
4.3	324	**2**	*1 mark for the method, 1 for the answer.*
4.4	2 × 2 × 3 × 3 × 3	**3**	*2 marks for the method, 1 for the answer.*
QUESTION 5 · Fractions, decimals and percentages · 10 marks			
5.1	0,4 (also accept 0,40) and 40%	**2**	*1 mark for the decimal fraction, 1 for the percentage.*
5.2	560 ÷ 100 × 30 = R168	**3**	*2 marks for the method, 1 for the answer.*
5.3	a. R2 000 − R1 600 = R400 b. 10% of R2 000 = R2 000 ÷ 10 = R200	**3**	*1 mark for the profit; 2 for the discount (1 for the method, 1 for the answer).*
5.4	2/6 − 1/6 = 1/6	**2**	*1 mark for the common denominator, 1 for the answer.*
QUESTION 6 · Ratio and problem solving · 3 marks			
6.1	a. R46 ÷ 2 = R23 b. 15 × R23 = R345	**3**	*1 mark for a; 2 for b (1 for the method, 1 for the answer).*
QUESTION 7 · Patterns, functions and algebra · 10 marks			
7.1	56 ; 68. The rule: add 12 each time.	**3**	*1 mark per number, 1 for the rule.*
7.2	8 + 19 × 12 = 236	**2**	*1 mark for the method, 1 for the answer.*
7.3	3 → 29; 6 → 53; 11 → 93; 15 → 125	**3**	*3 marks if all four are correct; 2 if three are correct.*
7.4	7 × 9 − 5 = 63 − 5 = 58, so yes	**2**	*1 mark for the substitution, 1 for "yes".*

Question	Answer	Marks	Marking note
QUESTION 8 · Space and Shape · 15 marks			
8.1	a. Any two of: 4 sides; opposite sides equal; opposite sides parallel; opposite angles equal b. A rectangle has 4 right angles, a parallelogram does not c. 2 acute angles and 2 obtuse angles	**4**	*2 marks for a (1 per property), 1 for b, 1 for c.*
8.2	Triangular prism: 5, 9, 6; Rectangular prism: 6, 12, 8	**4**	*2 marks per object.*
8.3	a. 4 b. Triangles c. Its base is a triangle, not a square (also accept: 4 faces instead of 5; 4 vertices instead of 5)	**3**	*1 mark each.*
8.4	Any TWO, e.g.: it has 4 sides (it is a quadrilateral); it has exactly one pair of parallel sides; the two parallel sides are not equal in length; it has 4 angles. Accept any other correct property.	**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	a. 25 °C b. 100 °C c. 0 °C	**3**	*1 mark each.*
9.2	a. 9 cm² ; 16 cm² ; 21 cm² ; 24 cm² ; 25 cm² b. The 5 cm × 5 cm rectangle (the square) c. No	**4**	*a: 2 marks if all five areas are correct, 1 mark for three or four. b: 1 mark. c: 1 mark.*
9.3	5 × 5 × 4 = 100 cm³	**3**	*2 marks for the method, 1 for the answer.*
9.4	3,25 kg; 3 450 g; 3,6 kg; 3 700 g	**3**	*1 mark for the conversion, 2 for the order.*
9.5	a. 2 300 m b. 2 800 g	**2**	*1 mark each.*
QUESTION 10 · Data Handling · 10 marks			
10.1	a. February b. 45 mm c. 85 − 25 = 60 mm d. 60 + 85 + 70 + 45 + 30 + 25 = 315 mm e. Less — the rainfall went down every month from February to June	**5**	*1 mark each.*
10.2	Smallest to largest: 24 ; 24 ; 28 ; 31 ; 35; Mode: 24; Median: 28	**3**	*1 mark each.*
10.3	a. 8 b. 40	**2**	*1 mark each.*

Total **100 marks**



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