Mathematics · Grade 5

Memorandum · Term 1–4

TOTAL
75
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. Hundred thousands	**1**	
1.2	a. 1 000	**1**	
1.3	b. 7	**1**	
1.4	c. 9	**1**	
1.5	b. Angle B	**1**	
1.6	b. 1 000	**1**	
QUESTION 2 · Large numbers · 8 marks			
2.1	29 200; 29 600; 30 000	**2**	*1 mark for two correct, 2 for all three.*
2.2	500 000 + 90 000 + 2 000 + 30 + 7	**2**	*1 mark for the two largest parts, 1 for the rest.*
2.3	a. 592 037 > 268 419 b. 268 419 < 592 037	**2**	*1 mark each.*
2.4	a. 592 000 b. 590 000	**2**	*1 mark each.*
QUESTION 3 · Adding, subtracting and estimating · 8 marks			
3.1	860 456	**3**	*2 marks for the method, 1 for the answer.*

Question	Answer	Marks	Marking note
3.2	323 618; check: 323 618 + 268 419 = 592 037	**3**	*2 marks for the answer, 1 for the check.*
3.3	592 000 + 268 000 = 860 000	**2**	*1 mark for the rounding, 1 for the estimate.*
QUESTION 4 · Multiplying and dividing · 8 marks			
4.1	367 × 20 = 7 340; 367 × 3 = 1 101; together = 8 441	**3**	*2 marks for the method, 1 for the answer.*
4.2	43	**3**	*2 marks for the method, 1 for the answer.*
4.3	a. 11 trays b. 20 eggs (30 × 11 = 330; 350 − 330 = 20)	**2**	*1 mark each; accept "11 remainder 20" for both.*
QUESTION 5 · Fractions and factors · 8 marks			
5.1	1; 2; 3; 4; 5; 6; 10; 12; 15; 20; 30; 60	**2**	*2 marks if all are correct; 1 if half are correct.*
5.2	Common factors: 1; 2; 3; 4; 6; 12. Largest: 12	**2**	*1 mark for the common factors, 1 for the largest.*
5.3	$6\frac{3}{5} - 2 = 4\frac{3}{5}$; $4\frac{3}{5} = 3\ 8/5$; $3\ 8/5 - \frac{4}{5} = 3\frac{4}{5}$	**2**	*1 mark for the working, 1 for the answer.*
5.4	60 ÷ 3 = 20; 20 × 2 = 40	**2**	*1 mark per step.*
QUESTION 6 · Patterns and ratio · 8 marks			
6.1	51 ; 62. The rule: add 11 each time.	**3**	*1 mark per number, 1 for the rule.*
6.2	2 → 19; 5 → 40; 9 → 68; 12 → 89	**3**	*3 marks if all four are correct; 2 if three are correct.*
6.3	36 is 3 × 12, so 3 × 250 g = 750 g flour and 3 × 2 = 6 eggs	**2**	*1 mark for the flour, 1 for the eggs.*
QUESTION 7 · Space and Shape · 11 marks			
7.1	A = a right angle; B = bigger than a right angle; C = smaller than a right angle	**3**	*1 mark each.*
7.2	Rectangular prism: 6, rectangles; Triangular prism: 5, 2 triangles and 3 rectangles	**4**	*2 marks per object: 1 for the number, 1 for the shape.*
7.3	A and C. The shapes fit together with no gaps and no overlaps; B has gaps between the shapes.	**2**	*1 mark for A and C, 1 for the reason.*

Question	Answer	Marks	Marking note
7.4	A and C	**2**	*1 mark each; if more than two letters are given, maximum 1 mark.*
QUESTION 8 · Measurement · 11 marks			
8.1	2 hours and 45 minutes (165 minutes)	**3**	*2 marks for the method, 1 for the answer.*
8.2	a. 645 cm b. 5 kg 500 g (accept $5\frac{1}{2}$ kg) c. 250 mℓ	**3**	*1 mark each.*
8.3	a. 2 × (19 + 13) = 64 m b. 3 × 64 m = 192 m	**4**	*2 marks each.*
8.4	Degrees Celsius (°C).	**1**	
QUESTION 9 · Data Handling · 7 marks			
9.1	a. Soccer 7 ; Netball 6 ; Cricket 4 ; Swimming 3 b. soccer c. swimming, cricket, netball, soccer	**4**	*a: 2 marks if all four rows are correct, 1 mark for two or three. b and c: 1 mark each.*
9.2	a. red, blue, green, yellow b. blue c. The results happen by chance; each spin can land on any colour.	**3**	*1 mark each (all four outcomes are needed in a).*

Total **75 marks**



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