Mathematics · Grade 6

Memorandum · Term 1–4

TOTAL
50
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 · 8 marks			
1.1	b. Hundred thousands	**1**	
1.2	b. $\frac{3}{8}$	**1**	
1.3	c. 120	**1**	
1.4	a. 12	**1**	*96 ÷ 12 = 8*
1.5	b. 0,07	**1**	
1.6	c. 2 : 3	**1**	
1.7	a. 162	**1**	*The rule is × 3.*
1.8	b. 24	**1**	
QUESTION 2 · Whole numbers · 10 marks			
2.1	4 000 000 + 60 000 + 2 000 + 800 + 10 + 5	**1**	*All six parts required.*
2.2	2 450 103; 2 450 013; 2 405 310; 2 405 130	**2**	*2 marks if all four are correct; 1 mark if only one pair is swapped.*
2.3	5 → 254 386 725; 1 000 → 254 387 000	**2**	*1 mark each. 723 is 2 from 725 and 3 from 720.*
2.4	$\frac{625}{1000} = \frac{5}{8}$	**2**	*1 mark for the fraction out of 1 000, 1 mark for simplifying.*

Question	Answer	Marks	Marking note
2.5	41; 43; 47; 53; 59	**1**	*All correct for the mark.*
2.6	100 − 18 (1) = 82 °C (1).	**2**	*1 mark for the working (100 − 18), 1 mark for the answer 82 °C.*
QUESTION 3 · Operations · 14 marks			
3.1	463 085 + 287 496 = 750 581	**2**	*1 mark for method, 1 for the answer.*
3.2	702 413 − 358 679 = 343 734	**2**	*1 mark for method, 1 for the answer.*
3.3	486 × 7 = 3 402; 486 × 40 = 19 440; 3 402 + 19 440 = 22 842	**3**	*1 mark per correct line.*
3.4	156 × 50 = 7 800; 8 892 − 7 800 = 1 092; 156 × 7 = 1 092; 8 892 ÷ 156 = 57	**3**	*1 mark for 7 800 and 1 092; 1 for 156 × 7 = 1 092; 1 for 57. Check: 156 × 57 = 8 892. Accept any correct method.*
3.5	17,615	**2**	*1 mark for lining up the commas, 1 for the answer.*
3.6	15% of 2 400 = R360; 2 400 − 360 = R2 040	**2**	*1 mark for the discount, 1 for the final price.*
QUESTION 4 · Fractions, decimals and percentages · 10 marks			
4.1	$\frac{1}{3}$; $\frac{7}{12}$; $\frac{3}{4}$	**1**	*All three in the correct order.*
4.2	2 + 1 = 3; 3/4 = 6/8; 6/8 + 5/8 = 11/8 = 1 3/8; $4\frac{3}{8}$	**2**	*1 mark for 6/8 and 3, 1 mark for $4\frac{3}{8}$ (accept 3 11/8).*
4.3	$\frac{5}{6} - \frac{3}{6} = \frac{2}{6} = \frac{1}{3}$	**2**	*1 mark for the common denominator, 1 for the simplified answer.*
4.4	$\frac{1}{2}$ = 0,5 = 50%; $\frac{1}{4}$ = 0,25 = 25%	**2**	*1 mark per complete row.*
4.5	40 ÷ 5 = 8; 8 × 3 = 24 learners; $\frac{3}{5}$ = 6/10 = 60/100 = 60%	**3**	*1 mark for 40 ÷ 5 = 8, 1 for 24 learners, 1 for 60%. Also accept 24 ÷ 40 × 100 = 60%.*
QUESTION 5 · Patterns and number sentences · 8 marks			
5.1	63 ; 127. The rule is × 2 + 1.	**2**	*1 mark for the two numbers, 1 mark for the rule. Also accept: the difference doubles each time (+4; +8; +16; +32; +64), or any equivalent correct description.*

Question	Answer	Marks	Marking note
5.2	43 + 9 = 52; 52 ÷ 4 = 13	**2**	*1 mark per step.*
5.3	Input 9 → output 35. Output 39 → input 10.	**2**	*1 mark per missing value (35 and 10).*
5.4	3 + 4 = 7 parts; 840 ÷ 7 = 120; 3 × 120 = R360 and 4 × 120 = R480	**2**	*1 mark for the parts, 1 mark for both amounts.*

Total **50 marks**



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