Mathematics · Grade 4

Memorandum · Term 1–4

TOTAL
167
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 · 7 marks			
1.1	c. Hundreds	**1**	
1.2	a. 6 409	**1**	
1.3	b. 8 400	**1**	*50 rounds up.*
1.4	c. 6	**1**	
1.5	a. 9	**1**	
1.6	b. 35	**1**	
1.7	c. 9	**1**	
QUESTION 2 · Matching · 4 marks			
2.1	1 = E (factor); 2 = D (sum); 3 = B (product); 4 = C (remainder)	**4**	*1 mark each.*
QUESTION 3 · Whole numbers · 8 marks			
3.1	4 000 + 800 + 20 + 6	**1**	*All four parts are required.*
3.2	<	**1**	*Only the sign is required.*
3.3	6 250; 6 205; 2 650; 2 605	**1**	*All four correct for the mark.*
3.4	10 → 7 460; 100 → 7 500; 1 000 → 7 000	**3**	*1 mark each.*
3.5	8; 16; 24; 32	**1**	*All four correct for the mark.*
3.6	1; 2; 3; 6; 9; 18	**1**	*All correct for the mark.*

Question	Answer	Marks	Marking note
QUESTION 4 · Expanded notation · 2 marks			
4.1	3 000 + 600 + 20 + 8	**2**	*1 mark per step.*
QUESTION 5 · Rounding · 3 marks			
5.1	260	**1**	*1 mark.*
5.2	300	**1**	*1 mark.*
5.3	2 000	**1**	*1 mark.*
QUESTION 6 · Compare and round off · 5 marks			
6.1	a. 5 909 > 5 099 b. 4 070 < 4 700	**2**	*1 mark each.*
6.2	6 873 → nearest 100 = 6 900. 2 448 → nearest 10 = 2 450; nearest 1 000 = 2 000.	**3**	*1 mark per correct block.*
QUESTION 7 · Operations · 12 marks			
7.1	5 368 + 2 745 = 8 113	**2**	*1 mark for the method, 1 for the answer.*
7.2	7 204 − 3 856 = 3 348	**2**	*1 mark for the method, 1 for the answer.*
7.3	38 × 4 = 152; 38 × 20 = 760; 152 + 760 = 912	**3**	*1 mark per correct line.*
7.4	476 ÷ 7 = 68	**3**	*2 marks for the operation, 1 for the answer.*
7.5	145 + 268 = 413. Check: 413 − 268 = 145	**2**	*1 mark for the answer, 1 for the check.*
QUESTION 8 · Addition and subtraction · 6 marks			
8.1	3 843	**3**	*1 mark per step.*
8.2	2 527	**3**	*1 mark per step.*
QUESTION 9 · Multiplication · 3 marks			
9.1	126 × 4 = 504	**3**	*1 mark per step.*
QUESTION 10 · Division · 3 marks			
10.1	345 ÷ 5 = 69	**3**	*1 mark per step.*
QUESTION 11 · Fractions · 7 marks			
11.1	$\frac{1}{4}$; $\frac{1}{2}$; $\frac{2}{3}$	**1**	*All three in the correct order.*
11.2	$\frac{2}{8}$	**1**	*Numerator and denominator both correct.*
11.3	$\frac{7}{8}$	**1**	*The denominator stays 8.*

Question	Answer	Marks	Marking note
11.4	20 ÷ 4 = 5 sweets	**2**	*1 mark for the operation, 1 for the answer.*
11.5	$\frac{5}{8}$ of the grapes are left.	**2**	*1 mark for the numerator, 1 for the denominator.*
QUESTION 12 · Equivalent fractions · 2 marks			
12.1	3	**1**	
12.2	4	**1**	
QUESTION 13 · Rate · 3 marks			
13.1	a. R36 b. R60 c. R24	**3**	*1 mark each.*
QUESTION 14 · Word problem · 3 marks			
14.1	6 × 48 = 288 tins	**3**	*1 mark per step.*
QUESTION 15 · Money · 9 marks			
15.1	a. 18 + 32 + 25 = R75 b. 100 − 75 = R25 c. Milk (2 ℓ) (R32)	**3**	*1 mark per step.*
15.2	12 + 22 = R34 each; 34 × 3 = R102	**3**	*1 mark per step.*
15.3	15 × 8 = R120	**2**	*1 mark per step.*
15.4	Yes — R120 is more than R105.	**1**	
QUESTION 16 · Sharing that gives fractions · 6 marks			
16.1	$\frac{3}{4}$ of a pizza (each pizza is cut into four; each child gets 3 pieces).	**2**	*1 mark for the method, 1 for $\frac{3}{4}$.*
16.2	$\frac{2}{3}$ of a sandwich	**2**	*1 mark for the method, 1 for $\frac{2}{3}$.*
16.3	a. $\frac{1}{3} < \frac{1}{2}$ b. $\frac{3}{4} > \frac{1}{4}$	**2**	*1 mark each.*
QUESTION 17 · Counting, ordering and place value · 10 marks			
17.1	2 500; 2 525; 2 550	**2**	*1 mark for two correct, 2 for all three.*
17.2	a. 6 084 < 6 480 b. 9 909 > 9 099	**2**	*1 mark each.*
17.3	a. Thousands (3 000) b. Tens (40)	**2**	*1 mark each.*
17.4	5 000 + 400 + 7	**2**	*1 mark for the thousands and hundreds, 1 for the rest.*
17.5	481; 483; 485; 487; 489 (any two)	**2**	*1 mark each.*
QUESTION 18 · Rounding and estimating · 6 marks			
18.1	a. 4 740 b. 4 700 c. 5 000	**3**	*1 mark each.*

Question	Answer	Marks	Marking note
18.2	Estimate: 3 800 + 3 000 = 6 800. Exact: 6 812	**3**	*1 mark for the rounding, 1 for the estimate, 1 for the exact answer.*
QUESTION 19 · Adding, subtracting and checking · 6 marks			
19.1	7 221	**3**	*2 marks for the method, 1 for the answer.*
19.2	882; check: 882 + 2 965 = 3 847	**3**	*2 marks for the answer, 1 for the check.*
QUESTION 20 · Multiplying and dividing · 8 marks			
20.1	34 × 20 = 680; 34 × 6 = 204; 680 + 204 = 884	**3**	*2 marks for the method, 1 for the answer.*
20.2	76	**2**	*1 mark for the method, 1 for the answer.*
20.3	65 remainder 5 (65 × 6 = 390; 390 + 5 = 395)	**3**	*2 marks for the answer, 1 for the remainder.*
QUESTION 21 · Multiples, factors and properties · 7 marks			
21.1	7; 14; 21; 28; 35; 42	**2**	*2 marks if all are correct; 1 mark if four are correct.*
21.2	1; 2; 3; 4; 6; 8; 12; 24	**2**	*2 marks if all are correct; 1 mark if half are correct.*
21.3	a. 17 – commutative property b. 6 – associative property c. 4 – distributive property	**3**	*1 mark each: correct number AND property name (or a correct description of the property).*
QUESTION 22 · Ratio, rate and sharing · 8 marks			
22.1	3+5 = 8 parts; 48 ÷ 8 = 6; red = 18, blue = 30	**3**	*1 mark for the parts, 1 per colour.*
22.2	240 ÷ 3 = 80 km	**2**	*1 mark for the operation, 1 for the answer.*
22.3	Each gets 5; 3 are left over. (5 × 5 = 25; 25 + 3 = 28)	**3**	*2 marks for the sharing, 1 for the remainder.*
QUESTION 23 · Large numbers · 7 marks			
23.1	1 300; 1 350; 1 400	**2**	*1 mark for two correct, 2 for all three.*
23.2	5 000 + 200 + 30 + 6	**2**	*1 mark for the two largest parts, 1 for the rest.*
23.3	a. 5 240 b. 5 200 c. 5 000	**3**	*1 mark each.*

Question	Answer	Marks	Marking note
QUESTION 24 · Operations with large numbers · 12 marks			
24.1	7 083	**3**	*2 marks for the method, 1 for the answer.*
24.2	3 389; check: 3 389 + 1 847 = 5 236	**3**	*2 marks for the answer, 1 for the check.*
24.3	952	**3**	*2 marks for the method, 1 for the answer.*
24.4	73	**3**	*2 marks for the method, 1 for the answer.*
QUESTION 25 · Number sentences and checking · 6 marks			
25.1	a. 386 b. 245 c. 9 d. 144	**4**	*1 mark each.*
25.2	7 × 30 = 210; 7 × 6 = 42; 210 + 42 = 252	**2**	*1 mark for breaking up, 1 for the answer.*
QUESTION 26 · Numbers in everyday life · 14 marks			
26.1	a. 1 248 − 675 = 573 girls b. 675 − 573 = 102 more boys	**3**	*a. 1 mark for the method, 1 mark for the answer (573); b. 1 mark (102).*
26.2	a. 7 200 b. 400 c. 1 500	**3**	*1 mark each.*
26.3	a. 175 b. 1 340 c. 8 d. 96	**4**	*1 mark each.*
26.4	a. 6 × 18 = R108 b. 4 × 22 = R88 c. 108 + 88 = R196 d. R200 − R196 = R4	**4**	*1 mark each.*

Total **167 marks**



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