Mathematics · Grade 5

Memorandum · Term 1–4

TOTAL
182
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	a. Ten thousands	**1**	
1.2	a. 629 000	**1**	
1.3	a. $\frac{7}{10}$	**1**	
1.4	a. 3 480	**1**	*3 482 is 2 away from 3 480 and 3 away from 3 485.*
1.5	a. 6	**1**	
1.6	b. 4	**1**	
1.7	c. 150	**1**	
1.8	c. 2 469	**1**	
QUESTION 2 · Matching · 4 marks			
2.1	1 = E (sum); 2 = D (quotient); 3 = B (product); 4 = C (even number)	**4**	*1 mark each.*
QUESTION 3 · Whole numbers · 10 marks			
3.1	600 000 + 40 000 + 300 + 5	**1**	*All four parts required.*
3.2	Eighty-five thousand and nineteen	**1**	

Question	Answer	Marks	Marking note
3.3	239 851; 293 158; 293 815; 293 851	**2**	*2 marks if all four are correct; 1 mark if only one pair is swapped.*
3.4	5 → 73 270; 100 → 73 300; 1 000 → 73 000	**3**	*1 mark each.*
3.5	45; 60; 75; 90	**1**	*All four for the mark.*
3.6	2 + 1 = 3; 3/4 + 3/4 = 6/4; 3 6/4 = 4 2/4 = $4\frac{1}{2}$	**2**	*1 mark for adding the whole numbers and the fractions, 1 mark for the answer. Accept 3 6/4, 4 2/4 or 4 1/2.*
QUESTION 4 · Expanded notation and even and odd numbers · 4 marks			
4.1	90 000 + 400 + 80 + 2	**2**	*There is no part for the 0 thousands. 2 marks for all four parts, 1 for three.*
4.2	1 357 = odd; 2 468 = even	**2**	*1 mark per number.*
QUESTION 5 · Rounding · 3 marks			
5.1	562 750	**1**	*1 mark.*
5.2	562 700	**1**	*1 mark.*
5.3	563 000	**1**	*1 mark.*
QUESTION 6 · Multiples and factors · 3 marks			
6.1	1, 2, 3, 5, 6, 10, 15, 30	**2**	*2 marks if all eight factors are correct; 1 mark if at least four are correct.*
6.2	14, 28, 42	**1**	*1 mark for all three multiples.*
QUESTION 7 · Operations · 14 marks			
7.1	45 786 + 28 469 = 74 255	**2**	*1 mark for method, 1 for the answer.*
7.2	80 205 − 36 478 = 43 727	**2**	*1 mark for method, 1 for the answer.*
7.3	358 × 6 = 2 148; 358 × 40 = 14 320; 2 148 + 14 320 = 16 468	**4**	*1 mark per correct line, 1 mark for the final answer.*
7.4	936 ÷ 24 = 39	**4**	*3 marks for the working, 1 for the answer.*
7.5	4 728 ÷ 8 = 591 packets	**2**	*1 mark for working, 1 for the answer.*

Question	Answer	Marks	Marking note
QUESTION 8 · Addition and subtraction · 2 marks			
8.1	84 244	**1**	*1 mark each.*
8.2	40 465	**1**	*1 mark each.*
QUESTION 9 · Multiplication and division · 6 marks			
9.1	325 × 4 = 1 300; 325 × 20 = 6 500; 1 300 + 6 500 = 7 800	**3**	*1 mark per step.*
9.2	852 ÷ 4 = 213	**3**	*1 mark per step.*
QUESTION 10 · Fractions: compare and calculate · 9 marks			
10.1	$\frac{2}{5}$; $\frac{5}{8}$; $\frac{2}{3}$	**1**	*All three in the correct order.*
10.2	$\frac{14}{12} = 1\frac{2}{12} = 1\frac{1}{6}$	**2**	*1 mark for adding the numerators, 1 mark for the answer. Accept 14/12, 1 2/12 or 1 1/6.*
10.3	$\frac{7}{10} - \frac{4}{10} = \frac{3}{10}$	**2**	*1 mark for subtracting the numerators, 1 mark for the answer.*
10.4	24 ÷ 4 = 6; 6 × 3 = 18 matches	**2**	*1 mark for working, 1 for the answer.*
10.5	3 ÷ 4 = $\frac{3}{4}$ m	**2**	*1 mark for 3 ÷ 4 or a drawing, 1 mark for $\frac{3}{4}$ m.*
QUESTION 11 · Fractions · 3 marks			
11.1	3/5	**1**	*1 mark each.*
11.2	3/9	**1**	*1 mark each.*
11.3	7	**1**	*1 mark each.*
QUESTION 12 · Common fractions · 5 marks			
12.1	3 − 1 = 2; 5/6 − 1/6 = 4/6; 2 4/6 (= 2 2/3)	**2**	*1 mark for subtracting the whole numbers, 1 mark for subtracting the fractions. Accept 2 4/6 or 2 2/3.*
12.2	2 ; $1\frac{2}{3}$	**2**	*1 mark each.*
12.3	1/3 (one whole cut into 3 parts gives bigger parts than into 5 parts)	**1**	

Question	Answer	Marks	Marking note
QUESTION 13 · Rate: rand per kilogram · 4 marks			
13.1	a. 6 × R18 = R108 b. R200 − R108 = R92	**4**	*1 mark for 6 × 18, 1 for R108, 1 for 200 − 108, 1 for R92.*
QUESTION 14 · Money · 10 marks			
14.1	a. 465 + 79 + 128 = R672 b. 700 − 672 = R28 c. Running shoes (R465)	**3**	*1 mark per step.*
14.2	45 × 14 = R630	**2**	*1 mark per step.*
14.3	No. R680 − R630 = R50 still needed.	**3**	*1 mark for the subtraction, 1 for R50, 1 for "not enough, he needs R50". Follow through from 14.2.*
14.4	13 + 22 = R35; 35 × 7 = R245	**2**	*1 mark per step.*
QUESTION 15 · Comparing, number lines and estimating · 9 marks			
15.1	a. 45 320 > 45 302 b. 8 904 < 9 048	**2**	*1 mark each.*
15.2	500 and 1 000	**2**	*1 mark each.*
15.3	48 228; 48 253; 48 278	**2**	*1 mark for two correct, 2 for all three.*
15.4	a. About 3 500 + 2 800 = 6 300 km. b. 3 458 + 2 765 = 6 223 km	**3**	*1 mark for the estimate, 2 for the exact answer.*
QUESTION 16 · Fractions on a number line and sharing · 6 marks			
16.1	$\frac{1}{3}$ and $\frac{2}{3}$	**2**	*1 mark each.*
16.2	A = $\frac{2}{5}$ (two fifths); B = $\frac{3}{8}$ (three eighths)	**2**	*1 mark each.*
16.3	$\frac{3}{5}$ of a bar (each bar is broken into five; each child gets 3 pieces).	**2**	*1 mark for the method, 1 for $\frac{3}{5}$.*
QUESTION 17 · Large numbers · 7 marks			
17.1	63 750; 64 000; 64 250	**2**	*1 mark for two correct, 2 for all three.*
17.2	500 000 + 7 000 + 300 + 10 + 8	**2**	*1 mark for the two largest parts, 1 for the rest.*
17.3	a. 507 320 b. 507 300 c. 507 000	**3**	*1 mark each.*

Question	Answer	Marks	Marking note
QUESTION 18 · Operations with large numbers · 12 marks			
18.1	57 000 + 36 000 = 93 000; 489 + 754 = 1 243; 94 243	**3**	*2 marks for the method, 1 for the answer.*
18.2	20 735; check: 20 735 + 36 754 = 57 489	**3**	*2 marks for the answer, 1 for the check.*
18.3	427 × 30 = 12 810; 427 × 5 = 2 135; 14 945	**3**	*2 marks for the method, 1 for the answer.*
18.4	26 × 30 = 780; 988 − 780 = 208; 208 ÷ 26 = 8; 38	**3**	*2 marks for the method, 1 for the answer.*
QUESTION 19 · Multiples and factors · 9 marks			
19.1	1; 2; 4; 5; 8; 10; 20; 40	**2**	*2 marks if all are correct; 1 if half are correct.*
19.2	Factors of 60: 1; 2; 3; 4; 5; 6; 10; 12; 15; 20; 30; 60. Common factors: 1; 2; 4; 5; 10; 20	**2**	*2 marks for all six; 1 mark for at least three.*
19.3	12; 24; 36; 48; 60	**2**	*2 marks if all five are correct; 1 if three or four are correct.*
19.4	1 × 91 and 7 × 13 → 1; 7; 13; 91	**3**	*1 mark for 1 and 91, 1 mark for 7 and 13, 1 mark for no wrong numbers with the working shown.*
QUESTION 20 · Fractions and mixed numbers · 8 marks			
20.1	$4\frac{1}{5} = 3\ 6/5$; $3\ 6/5 - 1\ 3/5 = 2\frac{3}{5}$	**2**	*1 mark for the working (regrouping or counting back), 1 for the answer.*
20.2	1 + 2 = 3; 2/5 + 1/5 = 3/5; 3 3/5	**2**	*1 mark for adding the whole numbers, 1 mark for adding the fractions.*
20.3	45 ÷ 5 = 9; 9 × 2 = 18	**2**	*1 mark per step.*
20.4	3/8 ; 1/2 ; 5/8 ; 3/4	**2**	*2 marks if all four are correct; 1 if two are correct.*
QUESTION 21 · Ratio, rate and problem solving · 12 marks			
21.1	420 ÷ 5 = 84 km	**2**	*1 mark for the operation, 1 for the answer.*
21.2	9 parts; 63 ÷ 9 = 7; cement = 14, sand = 49	**3**	*1 mark for the parts, 1 per amount.*

Question	Answer	Marks	Marking note
21.3	126 ÷ 9 = 14	**2**	*1 mark for the operation, 1 for the answer.*
21.4	a. 8 × R175 = R1 400 b. R1 600 − R1 400 = R200 short	**3**	*a: 2 marks (1 for 8 × R175, 1 for R1 400); b: 1 mark (R200).*
21.5	1 250 − 385 = 865	**2**	*1 mark for the number sentence, 1 for the answer.*
QUESTION 22 · More number work · 12 marks			
22.1	480 912 ; 480 219 ; 408 912 ; 408 219	**3**	*3 marks if all four are correct; 2 if three are correct.*
22.2	a. 63 000 b. 600 c. 2 400	**3**	*1 mark each.*
22.3	864 ÷ 12 = 72 dozens	**3**	*2 marks for the method, 1 for the answer.*
22.4	a. 2 500 b. 48 c. 700	**3**	*1 mark each.*
QUESTION 23 · Numbers in everyday life · 14 marks			
23.1	a. 48 500 − 36 875 = 11 625 empty b. 36 875 rounded to the nearest 1 000 = 37 000	**4**	*2 marks each.*
23.2	a. 42 000 b. 7 000 c. 28 000	**3**	*1 mark each.*
23.3	945 ÷ 15 = 63 bags	**3**	*2 marks for the method, 1 for the answer.*
23.4	a. 4 750 b. 12 400 c. 11 d. 250	**4**	*1 mark each.*
QUESTION 24 · Division with a remainder · 8 marks			
24.1	35 remainder 17 (35 × 24 = 840; 840 + 17 = 857)	**3**	*2 marks for the method, 1 for the remainder.*
24.2	43; yes, it divides exactly (no remainder).	**2**	*1 mark for the answer, 1 for 'no remainder'.*
24.3	500 ÷ 24 = 20 boxes, with 20 pencils left over.	**3**	*2 marks for the division, 1 for the remainder.*

Total **182 marks**



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