

National Curriculum Tests

Key Stage 2

Mathematics

Answer Booklet:

Paper 1 Arithmetic

Paper 2 Reasoning

Paper 3 Reasoning



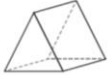

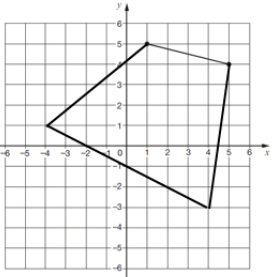
Published October 2017

Paper 1: Arithmetic

Question Number	Answer	Marks & Notes
1	1060	1 mark
2	2125	1 mark
3	$1\frac{1}{4}$ or $1\frac{2}{8}$	1 mark
4	707	1 mark
5	365	1 mark
6	7.967	1 mark
7	8100	1 mark
8	238	1 mark
9	9	1 mark
10	748	1 mark
11	3085	1 mark
12	$\frac{26}{100}$ or $\frac{13}{50}$	1 mark
13	2127	1 mark
14	87	1 mark
15	$\frac{20}{30}$ or $\frac{2}{3}$	1 mark
16	1800	1 mark
17	63	1 mark
18	0.006	1 mark
19	3245000	1 mark
20	2.35	1 mark
21	$\frac{4}{9}$	1 mark
22	32.126	1 mark
23	93144	2 marks for the correct answer. 1 mark for an incorrect answer but use of a vertical column method.
24	$\frac{7}{8}$	1 mark
25	42	2 marks for the correct answer. 1 mark for an incorrect answer but use of a vertical column method.
26	$\frac{1}{5}$	1 mark
27	$\frac{7}{20}$	1 mark
28	319	1 mark
29	24,186	2 marks for the correct answer. 1 mark for an incorrect answer but use of a vertical column method.
30	$3\frac{7}{8}$	1 mark
31	56	1 mark
32	$\frac{1}{20}$	1 mark
33	210	1 mark
34	38	2 marks for the correct answer. 1 mark for an incorrect answer but use of a vertical column method.
35	450	1 mark
36	157.5	1 mark

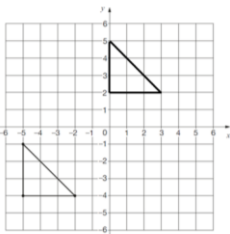
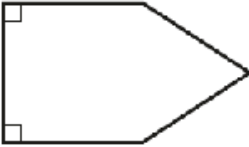
Paper 2: Reasoning

Question Number	Answer	Marks & Notes										
1	a. 190 b. 20	1 mark 1 mark										
2	8,050	1 mark										
3	The numbers 12 & 8 along the top of the multiplication grid and 7 down the side.	1 mark for all 3 numbers in the correct places.										
4	2056m	2 marks for the correct answer. If the answer is incorrect award 1 mark for evidence of an appropriate method										
5	<table border="1"> <thead> <tr> <th>Number</th> <th>1,000 more</th> </tr> </thead> <tbody> <tr> <td>2,700</td> <td>3,700</td> </tr> <tr> <td>73</td> <td>1,073</td> </tr> <tr> <td>7,088</td> <td>8,088</td> </tr> <tr> <td>16,670</td> <td>17,670</td> </tr> </tbody> </table>	Number	1,000 more	2,700	3,700	73	1,073	7,088	8,088	16,670	17,670	2 marks for all 3 numbers correctly placed or 1 mark for 2 numbers correctly placed.
Number	1,000 more											
2,700	3,700											
73	1,073											
7,088	8,088											
16,670	17,670											
6	0.218 0.32 1.745 2.3	1 mark for all 4 numbers in the correct order.										
7	7 years 2 ½ days / 2.5 days 8 weeks	2 marks for 3 correct answers correctly or 1 mark for 2 correct answers										
8	1258	2 marks for the correct answer. If the answer is incorrect award 1 mark for evidence of an appropriate method										
9		1 mark for both diagrams correctly identified.										
10	56,440 56,400 56,000	2 marks for 3 correct answers correctly or 1 mark for 2 correct answers										
11	a.235 minutes b. 3 kg	1 mark 1 mark										

12	 Cube <input type="checkbox"/>  Square-based pyramid <input checked="" type="checkbox"/>  Triangular prism <input checked="" type="checkbox"/>  Triangular-based pyramid <input type="checkbox"/>	2 marks for the two shapes shown 1 mark for the 2 correct shapes shown and not more than one incorrect shape ticked. Or 1 mark for one correct shape ticked and no incorrect shape ticked.
13	£1.09	2 marks for the correct answer. If the answer is incorrect award 1 mark for evidence of an appropriate method Or 1 mark for either £109 or £109p
14	24	1 mark
15	2009	1 mark
16	540°	1 mark
17		1 mark – accept slight inaccuracies in drawing
18	30%	1 mark
19	Award 2 marks for the correct answer of £1.88 If the answer is incorrect award 1 mark for evidence of an appropriate method.	Answer need not be attained to award 1 mark.
20	Award 1 mark for an explanation showing that 0.34 is smaller than $\frac{3}{4}$ e.g. $\frac{3}{4}$ is 0.75 which is larger than 0.34	Do not accept vague or incomplete explanations e.g. because $\frac{3}{4}$ is 0.75
21	Award 2 marks for the correct answer of 16.5 If the answer is incorrect award 1 mark for evidence of an appropriate method.	Answer need not be attained to award 1 mark.
22	1:3	1 mark

		Accept other equivalent ratios e.g. 2:6 Do not accept reversed ratios e.g. 3:1
23	Award 2 marks for the correct answer of $\frac{5}{12}$ If the answer is incorrect award 1 mark for evidence of an appropriate method.	Answer need not be attained to award 1 mark.

Paper 3: Reasoning

Question Number	Answer	Marks & Notes
1	10	1 mark
2	6	1 mark
3	78 x 5 or 75 x 8	1 mark for one of the correct calculations
4	a.11 b.- 4	1 mark 1 mark
5	£606.11	1 mark
6	15:05	1 mark
7		1 mark for triangle at coordinates – (3,2) (0,2) & (0,5)
8	4, 20, 100	1 mark
9	6 ½ or 6.5 hours	Do not accept 390 minutes
10	50ml	1 mark
11	39	1 mark
12	An explanation that shows that Karen has a quarter of the balloons that Tom has, e.g. $144 \div 4 = 36$ 144 halved is 72 and 72 halved is 36 so 36 is a quarter of 144.	1 mark
13		1 mark for identifying the top right pentagon only .
14	Award 2 marks for the correct answer of £0.93 If the answer is incorrect award 1 mark for evidence of an appropriate method.	Accept for one mark an answer of £93p. Answer need not be attained to award 1 mark.
15	H and F	1 mark
16	Award 2 marks for the correct answer of 1450 If the answer is incorrect award 1 mark for evidence of an appropriate method.	Answer need not be attained to award 1 mark.

17	Award 2 marks for all 4 numbers identified correctly 1.4 $1\frac{9}{10}$ $1\frac{4}{5}$ 1.1	If the answer is incorrect, award 1 mark for three numbers correctly identified
18	17 + 16	1 mark for both numbers correctly identified. Numbers must be in the correct order.
19	15, 16, 17 and 18	2 marks for all 4 numbers correctly identified. 1 mark can be awarded for all 4 numbers correctly identified and 1 error OR 1 mark can be awarded for 3 correct numbers and no incorrect numbers
20	Award 3 marks for the correct answer of 42	3 marks for the correct answer. If the answer is incorrect award 1 mark for evidence of an appropriate method.
21	Award 1 mark $\frac{5}{12}$ Award 1 mark for $2\frac{9}{12}$ or $2\frac{3}{4}$	2 marks
22	Award 2 marks for the answer 9. If the answer is incorrect award 1 mark for evidence of an appropriate method.	2 marks
23	Both numbers correct $b = \boxed{12} \times a - \boxed{3}$	1 mark
24	Award 2 marks for the answer 16. If the answer is incorrect award 1 mark for evidence of an appropriate method.	2 marks Answer need not be attained to award 1 mark.