

National Curriculum Tests

Key Stage 2

Mathematics

Answer Booklet:

Paper 1 Arithmetic

Paper 2 Reasoning

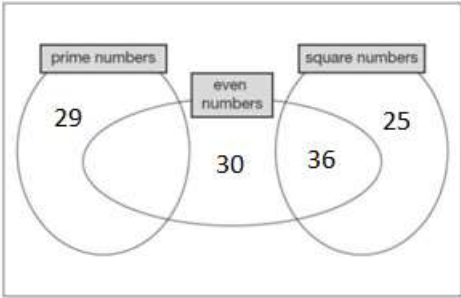
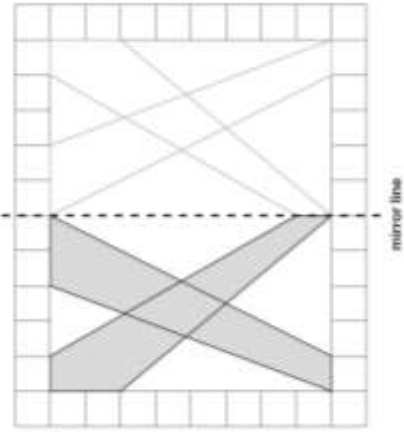

Paper 3 Reasoning

Published November 2016

Paper 1: Arithmetic

Question Number	Answer	Marks & Notes
1	1073	1 mark
2	360	1 mark
3	324	1 mark
4	227	1 mark
5	1223	1 mark
6	21	1 mark
7	88549	1 mark
8	506	1 mark
9	19	1 mark
10	2748	1 mark
11	416	1 mark
12	3600	1 mark
13	70900	1 mark
14	8.527	1 mark
15	183	1 mark
16	41.091	1 mark
17	52.16	1 mark
18	122577	1 mark
19	29	1 mark
20	0.007	1 mark
21	3.65	1 mark
22	110	1 mark
23	4617	2 marks for the correct answer. 1 mark for an incorrect answer but use of a vertical column method.
24	$1\frac{2}{8}$ or $1\frac{1}{4}$	1 mark
25	24	2 marks for the correct answer. 1 mark for an incorrect answer but use of a vertical column method.
26	920	1 mark
27	202.5	1 mark
28	$\frac{5}{20}$ or $\frac{1}{4}$	1 mark
29	228837	2 marks for the correct answer. 1 mark for an incorrect answer but use of a vertical column method.
30	61.6	1 mark
31	$1\frac{5}{6}$	1 mark
32	$\frac{1}{4}$ or 0.25	1 mark
33	160	1 mark
34	24	2 marks for the correct answer. 1 mark for an incorrect answer but use of a vertical column method.
35	$1\frac{3}{10}$ or 1.3	1 mark
36	62	1 mark


Paper 2: Reasoning

Question Number	Answer	Marks & Notes
1	a. 797 b. 855	1 mark 1 mark
2	C B A E D	1 mark
3	$\begin{array}{r} 168 \\ + 785 \\ \hline 953 \end{array}$	2 marks for all 3 digits correct If the answer is incorrect award 1 mark for 2 digits correct
4	a. 147659 b. 46573	1 mark 1 mark
5		2 marks for all numbers correctly placed or 1 mark for 3 numbers correctly placed. Do not accept numbers written in more than one region.
6		1 mark for diagram completed as shown. It does not need to be shaded.
7	4/6 8/12	1 mark 1 mark
8	0.5 0.05	1 mark for both correctly identified.
9	18p	2 marks for the correct answer. If the answer is incorrect award 1 mark for evidence of an appropriate method
10		2 marks for all 3 diagrams correctly shaded to show $\frac{3}{4}$ 1 mark for 2 diagrams correctly shaded.

11	50 days	2 marks for the correct answer. If the answer is incorrect award 1 mark for evidence of an appropriate method
12	a. 67 b. 46	1 mark 1 mark
13	117cm or 1.17m	2 marks for the correct answer. If the answer is incorrect award 1 mark for evidence of an appropriate method
14	24 and 48 only	1 mark Numbers may be given in either order.
15	95°F	2 marks for the correct answer. If the answer is incorrect award 1 mark for evidence of an appropriate method
16	a. 9,999,993 b. 7,800,000	1 mark 1 mark
17	a. 160° b. 40°	1 mark 1 mark
18	20	1 mark
19	£102.30	3 marks for the correct answer 2 marks for the incorrect answer but working showing the evidence of £78 and £8.70 and £15.60 1 mark for evidence of an appropriate complete method.
20	(-15, -45)	1 mark

Paper 3: Reasoning

Question Number	Answer	Marks & Notes
1	56 110 164	2 marks for all 3 answers correct 1 mark for any 2 answers correct
2	a. 12° b. -6°	1 mark 1 mark
3	01:45 13:45	1 mark for both times correctly identified.
4	Square = 51 Circle = 14	1 mark 1 mark
5	Award 1 mark for all numbers written in the correct order 0.097 0.304 0.87 3.005 6.9	
6	2.07m	2 marks for the correct answer. (1 mark can be awarded if 207 is written without the decimal point) If the answer is incorrect award 1 mark for evidence of an appropriate method
7	a. 2 b. 2	1 mark 1 mark
8	45p or £0.45	2 marks for the correct answer. (1 mark can be awarded for an answer of £45 or £45p or 0.45p) If the answer is incorrect award 1 mark for evidence of an appropriate method
9	a. 46 mins b. 11:47	1 mark 1 mark
10	A & C	1 mark
11	1890	2 marks for the correct answer. If the answer is incorrect award 1 mark for evidence of an appropriate method with no more than 1 arithmetic measure.
12	4 squares to the right and 7 squares down	1 mark
13	31	2 marks for the correct answer. If the answer is incorrect award 1 mark for evidence of an appropriate method.
14	a. 168 b. 120	1 mark 1 mark
15	91,000 9,000 1,000	2 marks for 3 boxes completed correctly 1 mark for 2 boxes completed correctly
16	4kg or 4000g	2 marks for the correct answer. If the answer is incorrect award 1 mark for evidence of an appropriate method.
17	C	1 mark

18		2 marks for the correct shapes identified. 1 mark for 1 correct only ticked. or 1 mark for both correct shapes identified & not more than 1 incorrect shape ticked.
19	20 and 5000 only	1 mark
20	£8.85 or 885p	2 marks for the correct answer. If the answer is incorrect award 1 mark for evidence of an appropriate method. Or 1 mark for an answer of £885 or £885p
21	<p>An explanation that shows that an answer can be found by subtracting 253 from 4301 e.g.</p> <ul style="list-style-type: none"> • $4301 - 253 = 16 \times 253$ • "16 x 253 is 253 less than 4301" 	1 mark