

Arithmetic				1
1	$2,690 + 3 =$	11	$8.29 + 7.903 =$	
2	$288 - 59 =$	12	$15.002 - 3.109 =$	
3	$537 \div 1 =$	13	$308 \times 1,000 =$	
4	$4 \times 59 =$	14	$9.1 \div 10 =$	
5	$3\% \text{ of } 3\text{kg} =$	15	$37 \times 90 =$	
6	$89 + (3 \times 7) =$	16	$980,006 - 394,210 =$	
7	$\quad\quad\quad = 7,936 - 933$	17	$666 \div 6 =$	
8	$10,568 \div 2 =$	18	$19 \times 361 =$	
9	$\frac{4}{7} \div 7 =$	19	$8 \frac{1}{8} \times 2 =$	
10	$\frac{7}{20} - \frac{1}{4} =$	20	$1 \frac{1}{2} \times 45 =$	

Reasoning 1

1	<p>Write the missing number. One is done for you.</p> <p>150 $\xrightarrow{\text{is 25 less than}}$ 175</p> <p><input type="text"/> $\xrightarrow{\text{is 25 less than}}$ 290</p>														
2	<p>Some children measured their heights.</p> <p>How much taller is Jack than Amy?</p>	<table border="1"> <thead> <tr> <th>Children</th> <th>Height (cm)</th> </tr> </thead> <tbody> <tr> <td>Lucy</td> <td>144</td> </tr> <tr> <td>Amy</td> <td>136</td> </tr> <tr> <td>Jack</td> <td>152</td> </tr> <tr> <td>Dan</td> <td>163</td> </tr> <tr> <td>Sue</td> <td>187</td> </tr> </tbody> </table>	Children	Height (cm)	Lucy	144	Amy	136	Jack	152	Dan	163	Sue	187	
Children	Height (cm)														
Lucy	144														
Amy	136														
Jack	152														
Dan	163														
Sue	187														
3	What number is halfway between 1.3 and 2.0?														
4	Round 491,900														
	To the nearest 100,000														
	To the nearest 10,000														
	To the nearest 1,000														

Arithmetic	2
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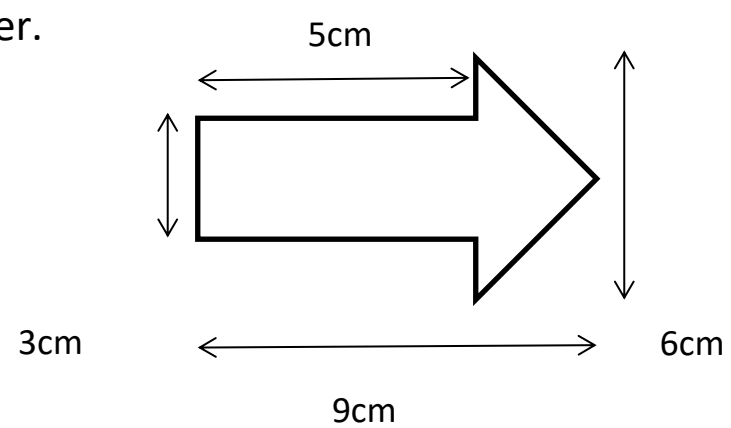
1	96 + 316 =	11	5.2 + 5.3 =
2	83,557 - 3,267 =	12	10.09 - 2.32 =
3	2,128 ÷ 4 =	13	100 X 81 =
4	8 X 64 =	14	853 ÷ 100 =
5	99% of 4,800 =	15	32 X 58 =
6	52 - 4 ² =	16	109,638 + 590 =
7	_____ = 5,999 + 9	17	43 X 151 =
8	8,542 ÷ 5 =	18	300 X 60 =
9	$\begin{array}{r} 5 \underline{1} \\ 3 \end{array} \times 2 =$	19	$\frac{3}{7} + \frac{2}{3} =$
10	$\frac{16}{70} + \frac{29}{70} =$	20	$\frac{4}{5} \times 60 =$

Reasoning 2	
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1	Fill in the missing gap.
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□	X 8 = 80 - 8
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2	Calculate this shape's perimeter.
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Not drawn to scale

3.	Shirley leaves the house at five past 11. She returns at 14:15. How long was she out for?
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4	Fill in the missing boxes.
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	5	4	2
-	3		8
		4	

5.	Other than 1, write down a common factor of 24 and 32.
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Arithmetic				3
1	$8,168 + 1,000 =$	11	$12 - 6.01 =$	
2	$430,001 - 35,501 =$	12	$9.2 + 4.9 =$	
3	$5,264 \div 8 =$	13	$10 \times 19,539 =$	
4	$3.2 \times 9 =$	14	$87,259 \div 1,000 =$	
5	$25\% \times 8,500 =$	15	$300 \times 9 =$	
6	$7^2 - 5^2 =$	16	$116,980 - 20,905 =$	
7	$\quad = 78,998 + 7$	17	$963 \times 45 =$	
8	$8,638 \div 8 =$	18	$4 \times 5 \times 6 =$	
9	$\frac{1}{4} \times 6 =$	19	$\frac{2}{3} - \frac{2}{5} =$	
10	$1\frac{1}{4} - \frac{1}{6} =$	20	$\frac{6}{7}$ of 56 =	

Reasoning 3

1	One gram of silver costs £0.37. What is the cost of half a kilogram of silver?		
2	Here is a diagram for sorting numbers. Write one number in each box. One is done for you.		
		Multiple of 4	Not a multiple of 4
	Multiple of 6	24	
	Not a multiple of 6		
3.	Convert these Roman numerals.	XXXVI =	
	MMLII =	LXX =	
4.	Here is a number line. Write the missing numbers in the boxes.		
5.	Write the number 45,813 in words .		

Arithmetic				4
1	$589,236 + 325,873 =$	11	$56.4 + 7.008 =$	
2	$42,860 - 29,904 =$	12	$36.8 - 1.804 =$	
3	$72 \div 8 =$	13	$1,000 \times 4,589 =$	
4	$900 \times 4 =$	14	$69,361 \div 1,000 =$	
5	$2\% \times 3,300 =$	15	$69 \times 4 =$	
6	$9^2 - 11 =$	16	$360,901 + 8,114 =$	
7	$\quad = 58,309 - 11$	17	$560 \times 42 =$	
8	$3,552 \div 12 =$	18	$9 \times 7 =$	
9	$\frac{4}{10} \times 3 =$	19	$\frac{7}{9} \div 3 =$	
10	$\frac{2}{6} + \frac{1}{8} =$	20	$\frac{7}{9} \times 3 =$	

Reasoning 4

1	<p>Here are six cards.</p> <div style="display: flex; justify-content: space-around; margin-bottom: 10px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">X 10</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">X 100</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">X 1,000</div> </div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">÷ 10</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">÷ 100</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">÷ 1,000</div> </div> <p>Use a card to complete each calculation.</p> <p>8.3 = 83</p> <p>8.3 = 0.83</p> <p>8.3 = 8,300</p>
2.	<p>A bag of 5 apples costs 90p. A bag of 4 pears costs £1.20. How much more does one pear cost than one apple?</p>
3.	<p>Here are four fraction cards.</p> <div style="display: flex; justify-content: space-around; margin-bottom: 10px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">$\frac{3}{5}$</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">$\frac{2}{10}$</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">$\frac{8}{15}$</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">$\frac{19}{20}$</div> </div> <p>Use any three of the cards to make this correct.</p> <div style="display: flex; justify-content: center; align-items: center; gap: 20px;"> <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;"> </div> < <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;"> </div> < <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;"> </div> </div>
4.	<p>Large pies cost £5.40. Small pies cost £3.20. Four children together buy two large pies and two small pies. They share the cost equally. How much does each child pay?</p>

Arithmetic				5
1	$89,981 + 76,456 =$	11	$8 + 6.501 =$	
2	$77,653 - 789 =$	12	$7.1 - 4.215 =$	
3	$2,889 \div 9 =$	13	$1,000 \times 4,542 =$	
4	$90 \times 30 =$	14	$9,256 \div 1,000 =$	
5	$7\% \times 800 =$	15	$45 \times 8 =$	
6	$7^2 + 1 =$	16	$291,321 + 1,001 =$	
7	$\quad = 8,900 - 909$	17	$549 \times 81 =$	
8	$1,929 \div 6 =$	18	$5,696 \div 32 =$	
9	$\frac{5}{6} \times 2 =$	19	$\frac{3}{10} \div 3 =$	
10	$\frac{2}{5} + \frac{1}{6} =$	20	$\frac{3}{9} \times 99 =$	

Reasoning 5

1	<p>The volume of this cube is 63cm^3.</p> <div style="text-align: center;"> </div> <p>Calculate the length of x.</p>		
2.	<p>Here is a number: 895,635.637</p>		
	Write the digit in the tens place:		
	Write the digit in the ten thousands place:		
	James adds 5,000 to the number. What digit will be in the thousands place now?		
3	<p>A family pack of raisins contains 25 boxes of raisins. If each box weighs 20g, what is the total weight of the pack?</p>		
4	<p>Write the missing number to make this division correct.</p> <p style="text-align: center;">$8.9 \times \square = 890$</p>		