

## 11+ MATHS (Foundation)

Item 1	$12 \times 1000 =$	
S 1	$A: 1200$ $B: 12000$ $C: 120$ $D: 120000$	

Item 2	$564 - 439 =$	
S 2	$A: 135$ $B: 125$ $C: 136$ $D: 126$	

Item 3	A card is picked from a pack of ordinary 52 playing cards. What is the probability of getting a king, queen or jack?	
S 3	$A: \frac{3}{13}$ $B: \frac{3}{52}$ $C: \frac{12}{13}$ $D: \frac{13}{52}$	

Item 4	$96 \div 6 =$	
S 4	<p>A:17</p> <p>B:14</p> <p>C:15</p> <p>D:16</p>	

Item 5	$0.3 + 0.8 =$	
S 5	<p>A:0.11</p> <p>B:1.2</p> <p>C:0.38</p> <p>D:1.1</p>	

Item 6	Simplify the following: $\frac{3}{30}$	
S 6	<p>A: <math>\frac{1}{3}</math></p> <p>B: <math>\frac{1}{10}</math></p> <p>C: <math>\frac{1}{5}</math></p> <p>D: <math>\frac{1}{9}</math></p>	

Item 7	Simplify the following: $\frac{8}{32}$	
S 7	<p>A: <math>\frac{1}{8}</math></p> <p>B: <math>\frac{1}{4}</math></p> <p>C: <math>\frac{4}{16}</math></p> <p>D: <math>\frac{2}{8}</math></p>	

Item 8	Fill in the next two numbers in the following sequence: 5, 13, 21, 29, ....., .....	
S 8	<p>A: 38,47</p> <p>B: 37,45</p> <p>C: 37,46</p> <p>D: 38,46</p>	
8b	<p>Describe how you completed the problem:</p> <p>A: Multiply by 2 then add 2</p> <p>B: Plus 9</p> <p>C: Plus 8</p> <p>D: Multiply by 3 then subtract 1</p>	

Item 9	$7.62 - 2.34 =$	
S 9	<p>A: 5.28</p> <p>B: 5.32</p> <p>C: 5.31</p> <p>D: 5.29</p>	

## 11+ MATHS (Middle)


Item 1	$0.00712 \times 100 =$	
S 1	<p>A: 0.712 B: 7.12 C: 71.2 D: 712</p>	

Item 2	$410.3 \div 1000 =$	
S 2	<p>A: 41.03 B: 4.103 C: 0.4103 D: 0.04103</p>	

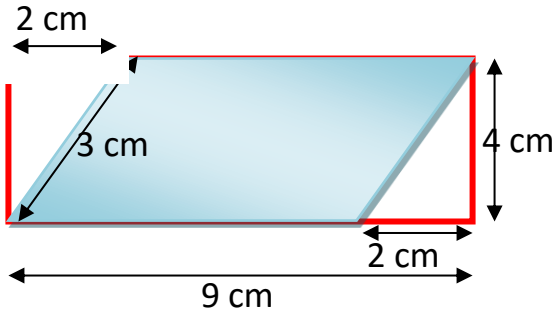
Item 3	Round the number below to one decimal place: 4.18	
S 3	<p>A: 4.20 B: 4.1 C: 4.2 D: 4.10</p>	

Item 4	Write the following fractions in order of size, from smallest to largest: $\frac{2}{3}, \frac{5}{6}, \frac{7}{12}$	3m
S 4	<p>A: <math>\frac{7}{12}, \frac{2}{3}, \frac{5}{6}</math></p> <p>B: <math>\frac{7}{12}, \frac{5}{6}, \frac{2}{3}</math></p> <p>C: <math>\frac{2}{3}, \frac{7}{12}, \frac{5}{6}</math></p> <p>D: <math>\frac{5}{6}, \frac{2}{3}, \frac{7}{12}</math></p>	

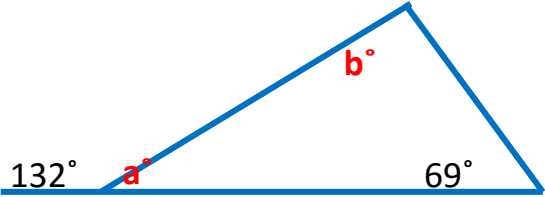
Item 5	$-9 + 7 =$	
S 5	<p>A: -16</p> <p>B: 2</p> <p>C: -2</p> <p>D: 16</p>	

Item 6	Work out the perimeter and area of the following shape: <div style="text-align: center; margin: 10px 0;">  </div>	4m
S 6	<p>A: <math>P = 9cm, A = 14cm^2</math></p> <p>B: <math>P = 14cm, A = 18cm^2</math></p> <p>C: <math>P = 18cm, A = 14cm^2</math></p> <p>D: <math>P = 18cm^2, A = 14cm</math></p>	

## 11+ MATHS (Advanced)

Item 1	<p>The diagram below shows a shaded parallelogram drawn inside a rectangle.</p> 	
S 1	<p>What is the area of the shaded parallelogram?</p> <p style="text-align: center;"> <i>A</i> : <math>21\text{cm}^2</math>  <i>B</i> : <math>28\text{cm}^2</math>  <i>C</i> : <math>32\text{cm}^2</math>  <i>D</i> : <math>36\text{cm}^2</math> </p>	

Item 2	<p>A can of lemonade from a vending machine costs 65p. The table below shows the coins that were collected from the machine in one day.</p> <table border="1" data-bbox="625 1373 1061 1608" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Coins</th> <th>Number of Coins</th> </tr> </thead> <tbody> <tr> <td>50p</td> <td>22</td> </tr> <tr> <td>20p</td> <td>18</td> </tr> <tr> <td>10p</td> <td>33</td> </tr> <tr> <td>5p</td> <td>41</td> </tr> </tbody> </table>	Coins	Number of Coins	50p	22	20p	18	10p	33	5p	41	
Coins	Number of Coins											
50p	22											
20p	18											
10p	33											
5p	41											
S 2	<p>How many cans of lemonade were sold that day?</p> <p style="text-align: center;"> <i>A</i> : £20.85  <i>B</i> : £19.95  <i>C</i> : 31  <i>D</i> : 30         </p>											

Item 3	Find the missing angles $a^\circ$ and $b^\circ$ : <div style="text-align: center; margin-top: 20px;">  </div>	3m
S 3	<p><math>A: a = 48^\circ, b = 53^\circ</math></p> <p><math>B: a = 48^\circ, b = 63^\circ</math></p> <p><math>C: a = 58^\circ, b = 53^\circ</math></p> <p><math>D: a = 58^\circ, b = 63^\circ</math></p>	

Item 4	$3\frac{1}{3} + 1\frac{9}{20} =$	
S 4	<p><math>A: 4\frac{9}{60}</math></p> <p><math>B: 4\frac{49}{60}</math></p> <p><math>C: 4\frac{10}{23}</math></p> <p><math>D: 4\frac{47}{60}</math></p>	