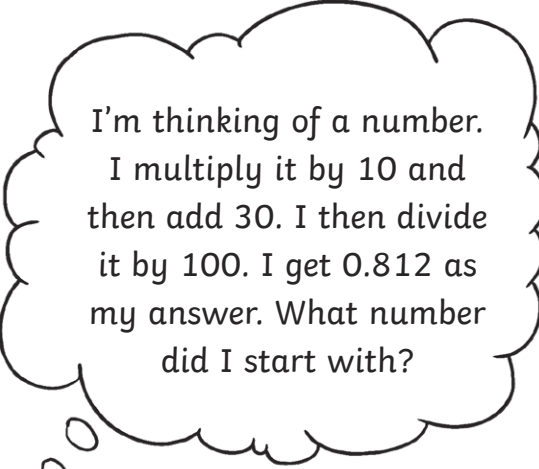

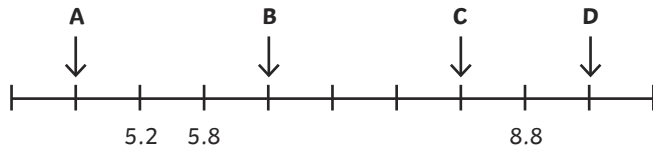




Decimal Place Value Reasoning

To solve multiplying and dividing decimals by powers of 10 reasoning questions.




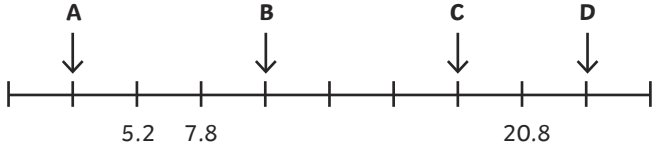
1. Put these calculations in order from smallest (1) to largest (6).	2. Calculate the starting number.	3. Look at the partially labelled number line. Decide if the following statements about the number are true (T) or false (F).
0.694×10 <input type="text"/>	 	
$6 + 0.8 + 0.02 + 0.001$ <input type="text"/>		<p>a. Point B is located at the number 6.4. <input type="text"/></p>
6.985×10 <input type="text"/>		<p>b. The number located at point A is less than 4.5. <input type="text"/></p>
$697.4 \div 10$ <input type="text"/>		<p>c. Point C is located at the number 8.3. <input type="text"/></p>
$698 \div 10$ <input type="text"/>		<p>d. The difference between points C and D is 1.2. <input type="text"/></p>
$691 \div 100$ <input type="text"/>		



Decimal Place Value Reasoning

To solve multiplying and dividing decimals by powers of 10 reasoning questions.



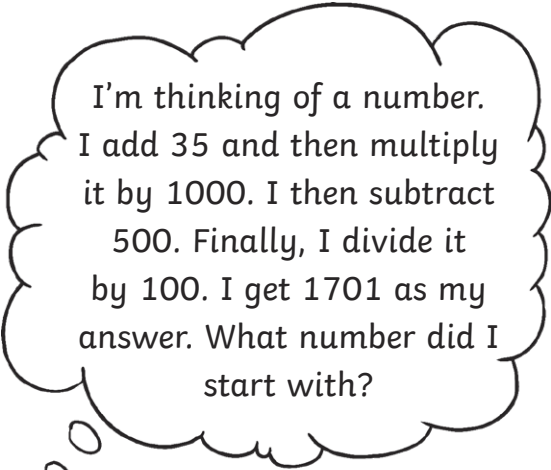

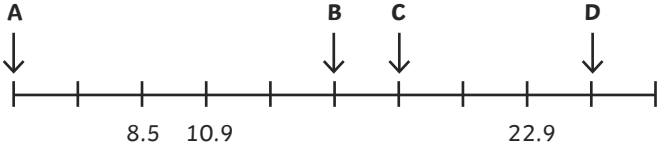
1. Put these calculations in order from smallest (1) to largest (6).	2. Calculate the starting number.	3. Look at the partially labelled number line. Decide if the following statements about the number are true (T) or false (F).
<p>$57\,070 \div 1000$ <input type="text"/></p> <p>$5 + 0.7 + 0.07 + 0.001$ <input type="text"/></p> <p>$5720 \div 1000$ <input type="text"/></p> <p>0.571×100 <input type="text"/></p> <p>$57 + 0.6 + 0.08 + 0.000$ <input type="text"/></p> <p>$50.7 \div 10$ <input type="text"/></p>	<p>I'm thinking of a number. I multiply it by 100 and then add 25. I then divide it by 10. I get 895.7 as my answer. What number did I start with?</p> 	 <p>a. Point B is located at the number 10.2. <input type="text"/></p> <p>b. The number located at point A is less than 3. <input type="text"/></p> <p>c. Point C is located at the number 18.4. <input type="text"/></p> <p>d. The difference between points C and D is 5.2. <input type="text"/></p>



Decimal Place Value Reasoning

To solve multiplying and dividing decimals by powers of 10 reasoning questions.



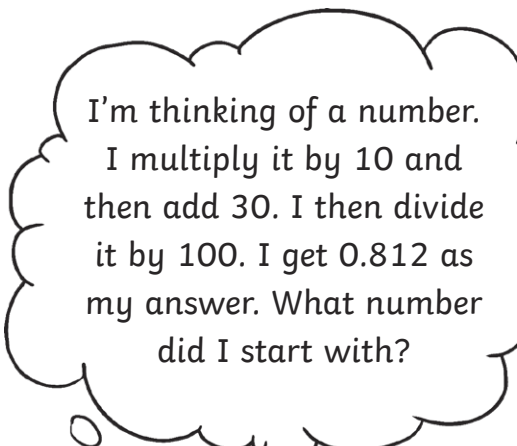

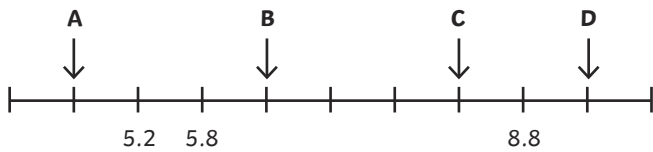
1. Put these calculations in order from smallest (1) to largest (6).	2. Calculate the starting number.	3. Look at the partially labelled number line. Decide if the following statements about the number are true (T) or false (F).
$24.03 \div 10$ <input type="text"/>	 	
$24 + 0.4 + 0.03$ <input type="text"/>		a. Point B is located at the number 15.7. <input type="text"/>
$24\ 030.4 \div 100$ <input type="text"/>		b. The number located at point A is less than 3.8. <input type="text"/>
0.243×10 <input type="text"/>		c. Point C is located at the number 18.2. <input type="text"/>
$240.43 \div 10$ <input type="text"/>		d. The difference between points C and D is 7.4. <input type="text"/>
$240 + 0.3 + 0.04$ <input type="text"/>		



Decimal Place Value Reasoning Answers

To solve multiplying and dividing decimals by powers of 10 reasoning questions.



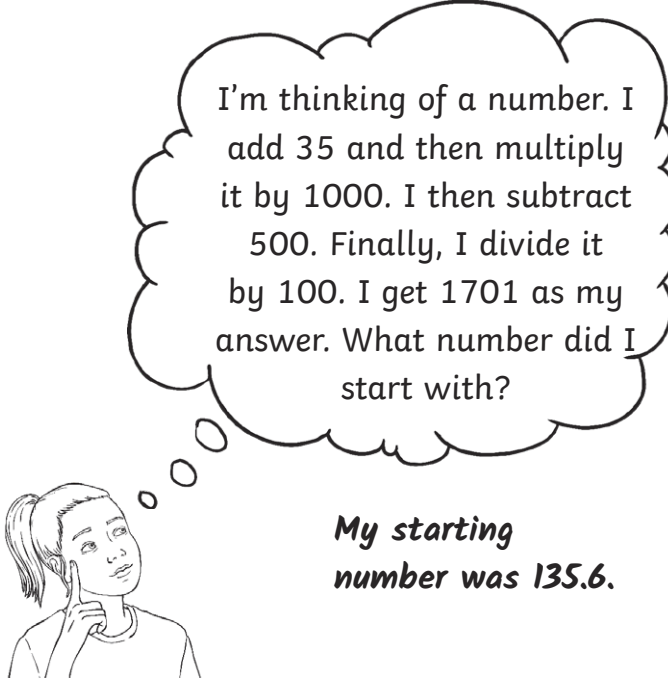
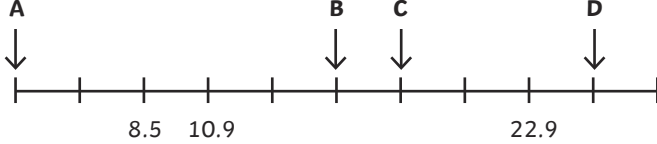
1. Put these calculations in order from smallest (1) to largest (6).	2. Calculate the starting number.	3. Look at the partially labelled number line. Decide if the following statements about the number are true (T) or false (F).
<p>0.694×10 $= 6.94$</p> <p>$6 + 0.8 + 0.02 + 0.001$ $= 6.821$</p> <p>6.985×10 $= 69.85$</p> <p>$697.4 \div 10$ $= 69.74$</p> <p>$698 \div 10$ $= 69.8$</p> <p>$691 \div 100$ $= 6.91$</p> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin: 5px;">3</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">1</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">6</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">4</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">5</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">2</div> </div>	<p>2. Calculate the starting number.</p> <div style="text-align: center; margin: 20px 0;">  <p>I'm thinking of a number. I multiply it by 10 and then add 30. I then divide it by 100. I get 0.812 as my answer. What number did I start with?</p> </div> <div style="text-align: center; margin: 20px 0;">  <p>My starting number was 5.12.</p> </div>	<p>3. Look at the partially labelled number line. Decide if the following statements about the number are true (T) or false (F).</p> <div style="text-align: center; margin: 10px 0;">  </div> <div style="display: flex; flex-direction: column;"> <div style="display: flex; justify-content: space-between; width: 100%;"> <div style="width: 60%;">a. Point B is located at the number 6.4.</div> <div style="width: 35%; text-align: center; border: 1px solid black; padding: 5px;">T</div> </div> <div style="display: flex; justify-content: space-between; width: 100%;"> <div style="width: 60%;">b. The number located at point A is less than 4.5. Point A is at 4.6.</div> <div style="width: 35%; text-align: center; border: 1px solid black; padding: 5px;">F</div> </div> <div style="display: flex; justify-content: space-between; width: 100%;"> <div style="width: 60%;">c. Point C is located at the number 8.3. Point C is at 8.2.</div> <div style="width: 35%; text-align: center; border: 1px solid black; padding: 5px;">F</div> </div> <div style="display: flex; justify-content: space-between; width: 100%;"> <div style="width: 60%;">d. The difference between points C and D is 1.2.</div> <div style="width: 35%; text-align: center; border: 1px solid black; padding: 5px;">T</div> </div> </div>



Decimal Place Value Reasoning Answers

To solve multiplying and dividing decimals by powers of 10 reasoning questions.



1. Put these calculations in order from smallest (1) to largest (6).	2. Calculate the starting number.	3. Look at the partially labelled number line. Decide if the following statements about the number are true (T) or false (F).
<p>$24.03 \div 10$ $= 2.403$</p> <p>$24 + 0.4 + 0.03$ $= 24.43$</p> <p>$24\ 030.4 \div 100$ $= 240.304$</p> <p>0.243×10 $= 2.43$</p> <p>$240.43 \div 10$ $= 24.043$</p> <p>$240 + 0.3 + 0.04$ $= 240.34$</p>	<p>2. Calculate the starting number.</p> <p>I'm thinking of a number. I add 35 and then multiply it by 1000. I then subtract 500. Finally, I divide it by 100. I get 1701 as my answer. What number did I start with?</p> <p><i>My starting number was 135.6.</i></p> 	<p>3. Look at the partially labelled number line. Decide if the following statements about the number are true (T) or false (F).</p>  <p>a. Point B is located at the number 15.7. <input type="text" value="T"/></p> <p>b. The number located at point A is less than 3.8. <input type="text" value="T"/></p> <p>c. Point C is located at the number 18.2. <input type="text" value="F"/> <i>Point C is at 18.1.</i></p> <p>d. The difference between points C and D is 7.4. <input type="text" value="F"/> <i>The difference is 7.2.</i></p>



Decimal Place Value Reasoning Answers

To solve multiplying and dividing decimals by powers of 10 reasoning questions.



1. Put these calculations in order from smallest (1) to largest (6).	2. Calculate the starting number.	3. Look at the partially labelled number line. Decide if the following statements about the number are true (T) or false (F).
$57\ 070 \div 1000$ $= 57.07$		
$5 + 0.7 + 0.07 + 0.001$ $= 5.771$		
$5720 \div 1000$ $= 5.72$	<div data-bbox="904 644 1451 1110" data-label="Text"> <p>I'm thinking of a number. I multiply it by 100 and then add 25. I then divide it by 10. I get 895.7 as my answer. What number did I start with?</p> </div> <div data-bbox="779 1142 981 1340" data-label="Image"> </div> <div data-bbox="1106 1174 1406 1257" data-label="Text"> <p><i>My starting number was 89.32.</i></p> </div>	<div data-bbox="1505 619 2154 762" data-label="Figure"> </div>
0.571×100 $= 57.1$		<p>a. Point B is located at the number 10.2. Point B is at 10.4. <input data-bbox="2007 817 2145 887" type="text" value="F"/></p>
$57 + 0.6 + 0.08 + 0.000$ $= 57.68$		<p>b. The number located at point A is less than 3. <input data-bbox="2007 944 2145 1015" type="text" value="T"/></p>
$50.7 \div 10$ $= 5.07$		<p>c. Point C is located at the number 18.4. Point C is at 18.2. <input data-bbox="2007 1072 2145 1142" type="text" value="F"/></p>
		<p>d. The difference between points C and D is 5.2. <input data-bbox="2007 1190 2145 1260" type="text" value="T"/></p>