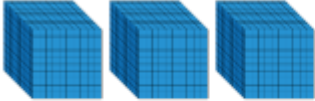

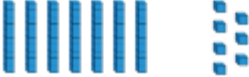


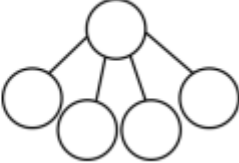







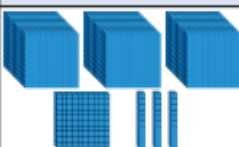

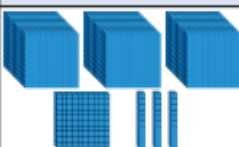

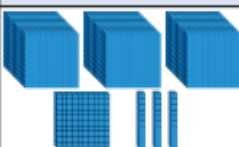
































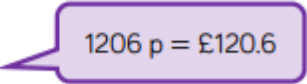


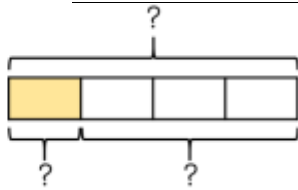


## West Berkshire 'Maths Talk' Counts Summer Challenge: Year 4

1 August 2020	<p>Complete the sentences.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>There are ____ thousands, ____ hundreds, ____ tens and ____ ones.</p> </div> <div style="text-align: center;">  <p>The number is ____.</p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> <div style="text-align: center;"> <p>____ + ____ + ____ + ____ = ____</p> </div> </div>						
2 August 2020	<p>Complete the part-whole model for the number represented.</p> <div style="display: flex; align-items: center; justify-content: space-between;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>						
3 August 2020	<p>Use the clues to find the missing digits.</p> <div style="text-align: center; margin-bottom: 20px;">  </div> <p>The thousands and tens digit multiply together to make 36</p> <p>The hundreds and tens digit have a digit total of 9</p> <p>The ones digit is double the thousands digit.</p> <p>The whole number has a digit total of 21</p>						
4 August 2020	<p>10 more than my number is the same as 100 less than 320</p> <p>What is my number?</p> <p>Explain how you know.</p>						
5 August 2020	<p>A counter is missing on the place value chart.</p> <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #f4b084;"> <th style="padding: 5px;">Hundreds</th> <th style="padding: 5px;">Tens</th> <th style="padding: 5px;">Ones</th> </tr> </thead> <tbody> <tr> <td style="padding: 10px;">  </td> <td style="padding: 10px;"></td> <td style="padding: 10px;">  </td> </tr> </tbody> </table> <p>What number could it have been?</p>	Hundreds	Tens	Ones			
Hundreds	Tens	Ones					
							

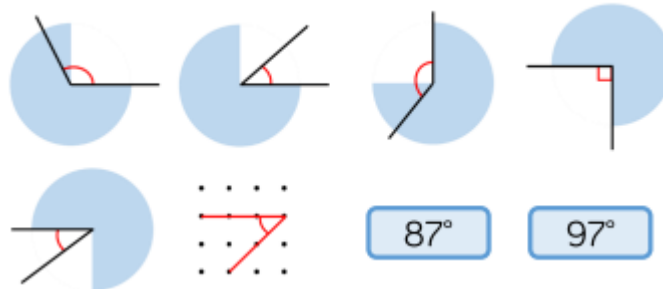
6 August 2020	<p>Complete the table.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #d9e1f2;"> <th style="padding: 5px;">1,000 less</th> <th style="padding: 5px;">Number</th> <th style="padding: 5px;">1,000 more</th> </tr> </thead> <tbody> <tr> <td style="height: 60px;"></td> <td style="padding: 5px;">  </td> <td style="height: 60px;"></td> </tr> <tr> <td style="padding: 5px;">  </td> <td style="height: 60px;"></td> <td style="height: 60px;"></td> </tr> </tbody> </table>	1,000 less	Number	1,000 more									
1,000 less	Number	1,000 more											
													
													
7 August 2020	<p>Jack says:</p> <div style="display: flex; align-items: center; margin: 10px 0;">  <div style="border: 1px solid green; border-radius: 15px; padding: 10px; background-color: #e0f0e0; width: fit-content;"> <p>When I add 1,000 to 4,325, I only have to change 1 digit.</p> </div> </div> <p>Is he correct? Which digit does he need to change?</p>												
8 August 2020	<p>Here are three digit cards.</p> <div style="display: flex; justify-content: center; gap: 20px; margin: 10px 0;"> <div style="border: 1px solid green; border-radius: 10px; padding: 10px; background-color: #d9ead3; width: 40px; text-align: center; font-size: 24px;">2</div> <div style="border: 1px solid green; border-radius: 10px; padding: 10px; background-color: #d9ead3; width: 40px; text-align: center; font-size: 24px;">3</div> <div style="border: 1px solid green; border-radius: 10px; padding: 10px; background-color: #d9ead3; width: 40px; text-align: center; font-size: 24px;">4</div> </div> <p>Alex and Teddy are making 3-digit numbers using each card once.</p> <div style="display: flex; margin: 10px 0;"> <div style="margin-right: 20px;">  <p>Alex</p> </div> <div style="border: 1px solid blue; border-radius: 15px; padding: 10px; background-color: #d9e1f2; width: fit-content;"> <p>I have made the greatest possible number.</p> </div> </div> <div style="display: flex; margin: 10px 0;"> <div style="border: 1px solid yellow; border-radius: 15px; padding: 10px; background-color: #fff2cc; width: fit-content; margin-right: 20px;"> <p>I have made the smallest possible number.</p> </div> <div style="text-align: right;">  <p>Teddy</p> </div> </div> <p>Work out the total of their two numbers.</p>												
9 August 2020	<p>Use counters and a place value grid to calculate <math>3,242 + 2,213</math></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center; margin: 10px 0;"> <thead> <tr style="background-color: #fce4d6;"> <th style="padding: 5px;">1,000s</th> <th style="padding: 5px;">100s</th> <th style="padding: 5px;">10s</th> <th style="padding: 5px;">1s</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">  </td> <td style="padding: 5px;">  </td> <td style="padding: 5px;">  </td> <td style="padding: 5px;">  </td> </tr> <tr> <td style="padding: 5px;">  </td> <td style="padding: 5px;">  </td> <td style="padding: 5px;">  </td> <td style="padding: 5px;">  </td> </tr> </tbody> </table>	1,000s	100s	10s	1s								
1,000s	100s	10s	1s										
													
													

10 August 2020	<p>Roll a 1 to 6 die. Fill in a box each time you roll.</p> <p><input type="text"/><input type="text"/><input type="text"/> + <input type="text"/><input type="text"/><input type="text"/> =</p> <p>Can you make the total:</p> <ul style="list-style-type: none"> <li>• An odd number</li> <li>• An even number</li> <li>• A multiple of 5</li> <li>• The greatest possible number</li> <li>• The smallest possible number</li> </ul>
11 August 2020	<p><b>Always, Sometimes, Never</b></p> <p>When all the sides of a rectangle are odd numbers, the perimeter is even. Prove it.</p>
12 August 2020	<p>Rosie is measuring a sunflower using a 30 cm ruler. Rosie says,</p> <p> The sunflower is 150 cm tall.</p> <p>Rosie is incorrect. Explain what mistake she might have made. How tall is the sunflower?</p>
13 August 2020	<p>Jack takes part in a sponsored silence.</p> <p>He says,</p> <p> If I am silent for five hours at 10p per minute, I will raise £50</p> <p>Do you agree with Jack? Explain why you agree or disagree.</p>
14 August 2020	<p><b>Always, sometimes, never?</b></p> <p>There are 730 days in two years.</p>

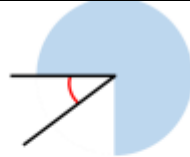
<p>15 August 2020</p>	<p>Some children are converting 1206 p into pounds.</p> <p>Who is correct?</p> <p> Whitney</p> <p> Rosie</p> <p> Teddy</p> <p>What have the others done wrong?</p>
<p>16 August 2020</p>	<p>What would you rather have, five 50p coins or twelve 20p coins? Explain your answer fully.</p> <p></p>
<p>17 August 2020</p>	<p>Amir has these digits cards.</p> <p></p> <p>He uses them to fill the frame below:</p> <p>£ <input type="text"/> . <input type="text"/> <input type="text"/></p> <p>He makes a total that is more than three pounds but less than six pounds.</p> <p>How many amounts can he make?</p> <p>Order your amounts in ascending order.</p>
<p>18 August 2020</p>	<p>Ron has £48. He spends one quarter of his money.</p> <p>How much does he have left? Use the bar model to help.</p> <p></p>

19 August 2020

Sort the angles into acute, obtuse and right angles.



20 August 2020



I know the angle is not obtuse.



Teddy



Alex

I know the angle is acute.

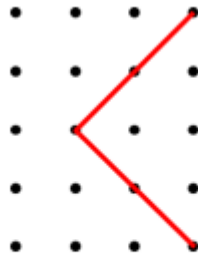
I think the angle is roughly  $45^\circ$ .



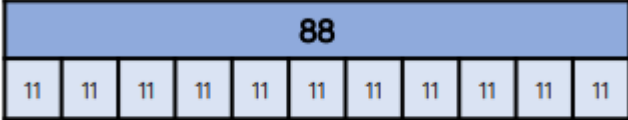
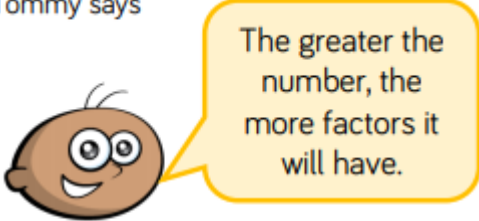

Whitney







Who is correct?  
Explain your reasons.



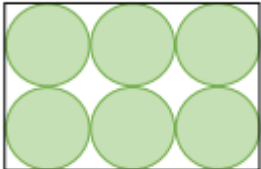
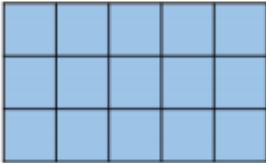
21 August 2020



Is the angle acute, obtuse or a right angle?  
Can you explain why?

22 August 2020	<p>Rosie uses a bar model to represent 88 divided by 11</p>  <p>Explain Rosie's mistake.</p> <p>Can you draw a bar model to represent 88 divided by 11 correctly?</p>
23 August 2020	<p>Tommy says</p>  <p>Is Tommy correct?</p> <p>Use arrays to explain your answer.</p>
24 August 2020	<p>Mo is told that this bead string represents one whole.</p>  <p>He thinks that each individual bead represents one tenth. Do you agree with Mo? Explain your answer.</p>
25 August 2020	<p><b>Always, Sometimes, Never</b></p> <p>If you write a whole number in a place value grid and multiply it by 10, all the digits move one column to the left.</p>

<p>26 August 2020</p>	<p>Match each description to the correct number.</p> <p> My number has the same amount of tens as tenths.</p> <p>Teddy</p> <p> My number has one decimal place.</p> <p>Amir</p> <p> My number has two hundredths.</p> <p>Rosie</p> <p> My number has six tenths.</p> <p>Eva</p> <p>46.2    2.64    46.02    40.46</p>
<p>27 August 2020</p>	<p></p> <p>Use three digit cards to make the greatest possible number.</p> <p><input type="text"/> <input type="text"/> <input type="text"/></p> <p>Use three digit cards to make the smallest possible number.</p> <p><input type="text"/> <input type="text"/> <input type="text"/></p>
<p>28 August 2020</p>	<p><b>Spot the Mistake</b></p> <p>Rosie is ordering some numbers in ascending order:</p> <p></p> <p>0.09 &lt; 0.99 &lt; 10.01 &lt; 1.35 &lt; 9.09</p> <p>Can you explain her mistake?</p>

29 August 2020	<p>Dexter has made a mistake when converting his fractions to decimals.</p> <div style="border: 1px solid purple; border-radius: 15px; padding: 10px; width: fit-content; margin: 10px auto;"> <math display="block">\frac{1}{2} = 1.2, \frac{1}{4} = 1.4 \text{ and } \frac{3}{4} = 3.4</math> </div> <p>What mistake has Dexter made?</p>
30 August 2020	<p>Two children have measured the top of their desk. They used different sized squares.</p> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; align-items: center; margin-bottom: 20px;">  <div style="border: 1px solid orange; border-radius: 15px; padding: 5px; background-color: #fff9c4;"> <p>The area of the table top is 6 squares.</p> </div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid blue; border-radius: 15px; padding: 5px; background-color: #e1f5fe; margin-right: 10px;"> <p>The area of the table top is 9 squares.</p> </div>  </div> </div> <p>Who used the largest squares? How do you know?</p>
31 August 2020	<p>Teddy and Eva are measuring the area of the same rectangle.</p> <p>Teddy uses circles to find the area.</p> <div style="text-align: center; margin: 10px 0;">  </div> <p>Eva uses squares to find the area.</p> <div style="text-align: center; margin: 10px 0;">  </div> <p>Whose method do you think is more reliable? Explain why.</p>



