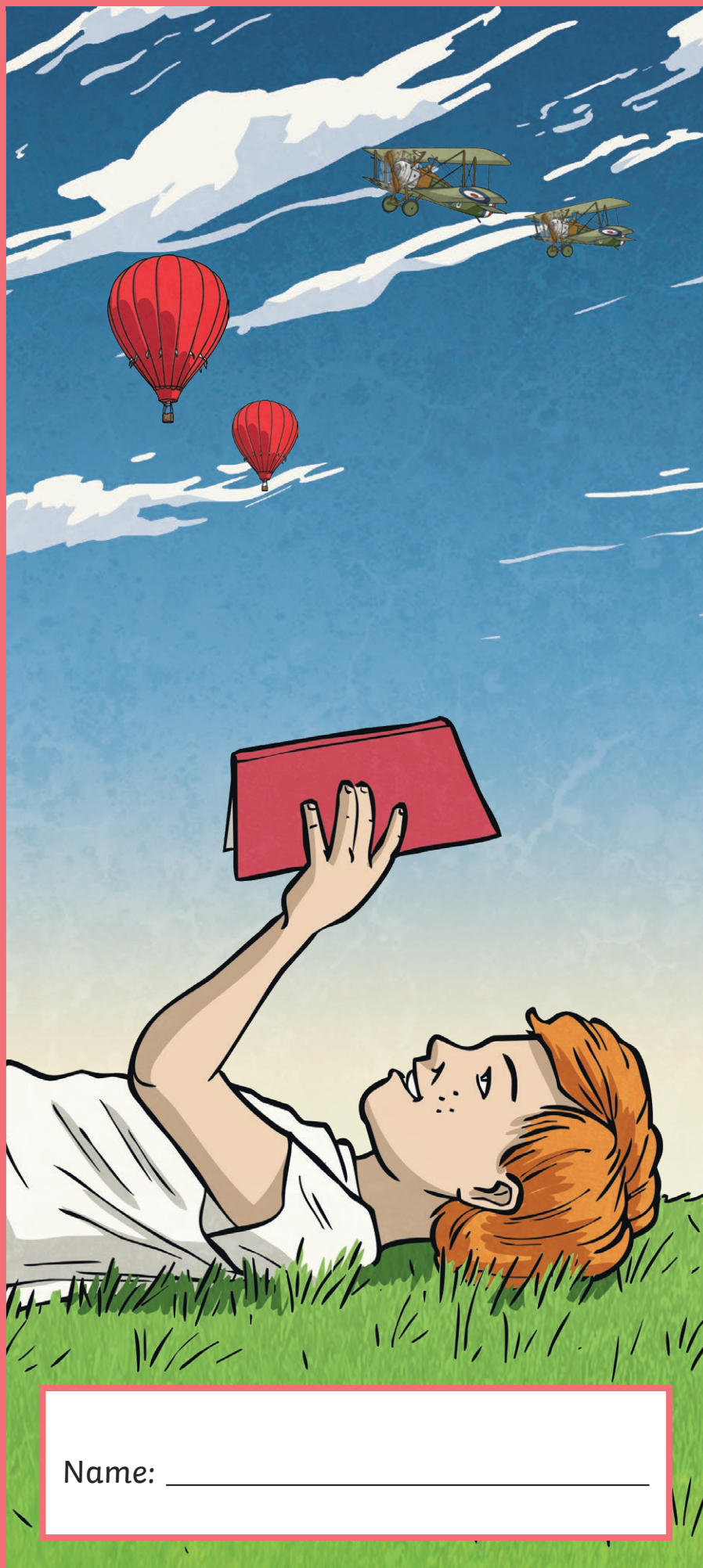


Maths Transition

Goodbye, Year 5 Hello, Year 6



Name: _____



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Place Value Mystery Number

Work with a partner or in a group to solve this puzzle.

Use these clues to find the missing number.

<p>The mystery number has been ordered with these numbers.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <tr> <td style="width: 25%; padding: 5px;">263 872</td> <td style="width: 25%; padding: 5px;">264 302</td> <td style="width: 25%; padding: 5px; text-align: center;">?</td> <td style="width: 25%; padding: 5px;">279 187</td> </tr> <tr> <td style="padding: 5px;">smallest</td> <td></td> <td></td> <td style="padding: 5px;">greatest</td> </tr> </table>	263 872	264 302	?	279 187	smallest			greatest	<p>If you count back from the mystery number in thousands, you will come to the number 84.</p>
263 872	264 302	?	279 187						
smallest			greatest						
<p>Rounded to the nearest ten thousand, the mystery number is 270 000.</p>	<p>The digit sum of the mystery number is 27.</p>								

The mystery number is _____.

Think of your own mystery number. Can you write clues about your mystery number?

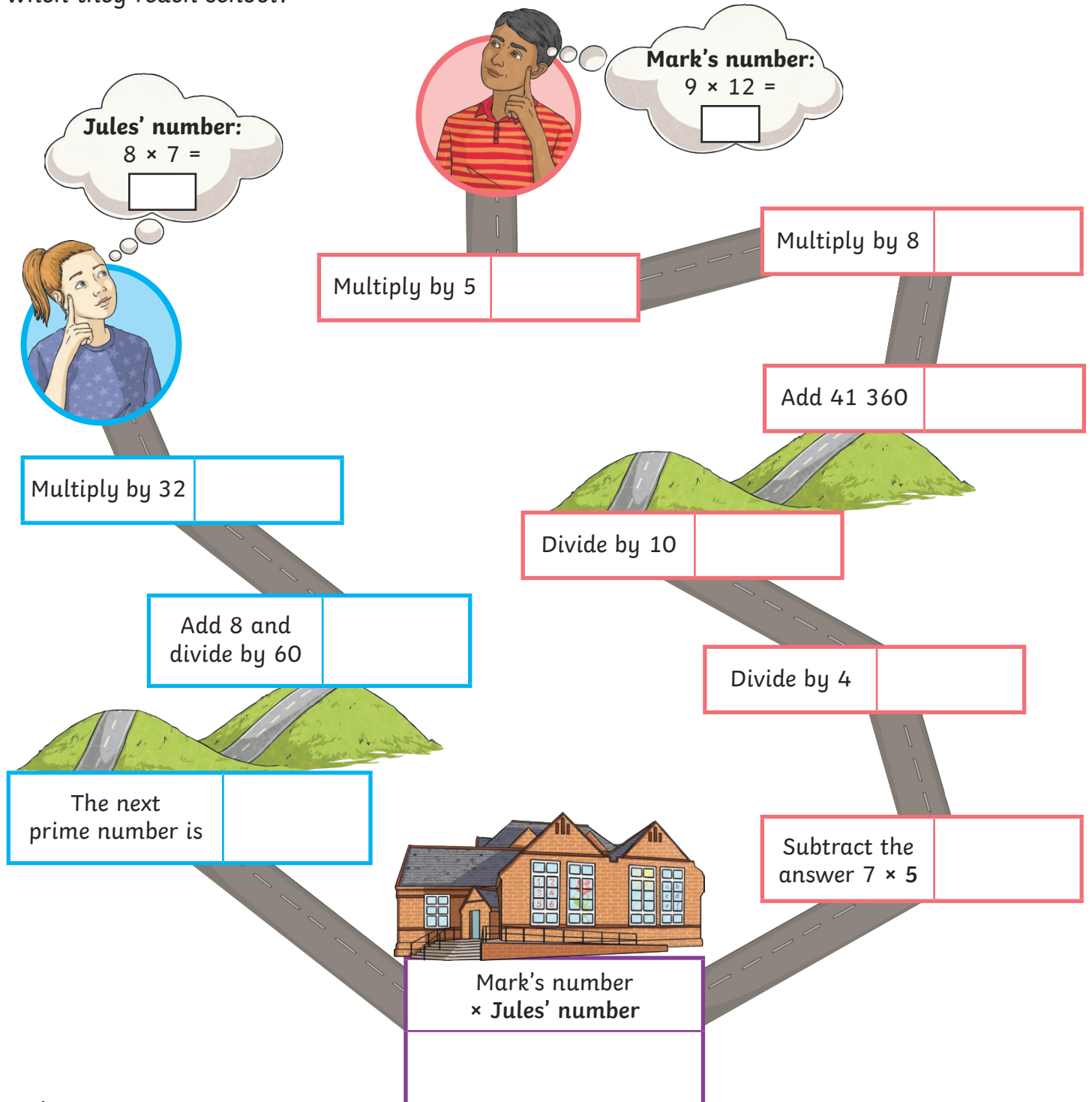


How did you feel when solving this puzzle?



Calculation Course

Mark and Jules are going to school. They both set off from their homes with a number. Their numbers change as they make their way along the paths. What number will they have when they reach school?



How did you feel when solving this puzzle?



Fraction Flags

Shade each flag using the given fractions.

$\frac{1}{10} + \frac{1}{5} = \text{green}$ $\frac{9}{10} - \frac{1}{2} = \text{yellow}$ <p>The rest will be blue.</p> <p>blue: <input type="text"/></p>	$\frac{1}{2} = \text{red}$ $\frac{3}{4} - \frac{3}{8} = \text{yellow}$ <p>The rest will be white.</p> <p>white: <input type="text"/></p>
$\frac{1}{6} + \frac{1}{3} = \text{red}$ $\frac{5}{6} - \frac{2}{3} = \text{yellow}$ <p>The rest will be blue.</p> <p>blue: <input type="text"/></p>	$\frac{11}{12} - \frac{2}{3} = \text{green}$ $\frac{1}{6} + \frac{1}{3} = \text{red}$ <p>The rest will be yellow.</p> <p>yellow: <input type="text"/></p>
$\frac{1}{8} + \frac{1}{4} = \text{blue}$ $\frac{7}{8} - \frac{1}{2} = \text{yellow}$ <p>The rest will be green.</p> <p>green: <input type="text"/></p>	$\frac{1}{10} + \frac{2}{5} = \text{green}$ $\frac{1}{2} - \frac{1}{5} = \text{yellow}$ <p>The rest will be red.</p> <p>red: <input type="text"/></p>

Can you give a fraction for each of the 'remaining' colours?



How did you feel when solving this puzzle?



Decimal Place Value Game

Each player will need:

0 – 9 digit cards

Instructions:

Shuffle your set of cards and place them face down.

The first player must turn over a digit card and place it on their grid. The second player will take their turn.

Repeat this until both players have a distance.

The aim of the game is to make the greatest distance. The player with the greatest distance scores one point.

The winner is the first player to score five points.



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● km

Want to try something different? Why not decide on a target distance in metres and the winner is the person who gets closest to the number. For example, try to make a distance closest to 2800m.



How did you feel when solving this puzzle?



Matching Times

Roll two dice and find the time on the grid. If you can say an equivalent time, you can claim the square. For example, if you land on 540 seconds, you could say this is also 9 minutes. If not, your turn passes to the other player. The winner is the first player to connect four in a row, horizontally, diagonally or vertically.

	360 seconds	660 seconds	24 hours	60 seconds	2 weeks	21 days
	120 seconds	72 hours	2 minutes	480 minutes	720 seconds	35 days
	240 minutes	30 seconds	300 minutes	1 hour	35 days	5 minutes
	3 minutes	1 minute	600 seconds	3600 seconds	600 minutes	96 hours
	420 seconds	48 hours	360 minutes	1 week	1 year	240 seconds
	62 minutes	6 minutes	14 days	180 seconds	1 day	720 minutes



How did you feel when solving this puzzle?



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