

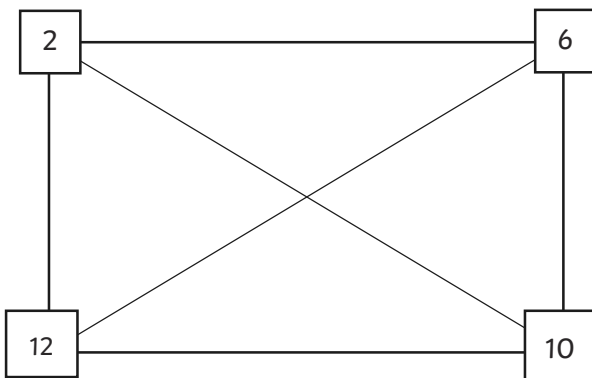
Factors, Multiples and Prime Numbers

I can identify common factors, common multiples and prime numbers.



- 1) a) What is the highest common factor of 24 and 36? _____
b) What is the highest common factor of 21 and 54? _____
c) What is the highest common factor of 19 and 48? _____

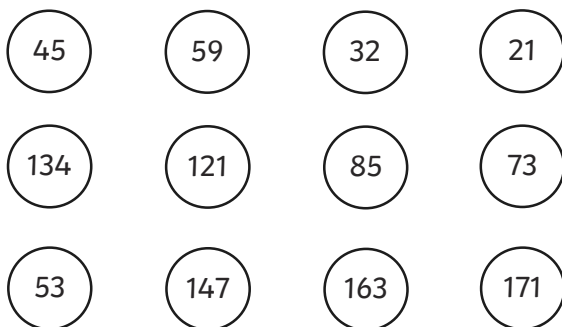
2) Work out the lowest common multiple of each pair of linked numbers.



- 2 and 6 _____
6 and 10 _____
6 and 12 _____
2 and 10 _____
10 and 12 _____
2 and 12 _____

Which pairs of numbers have the same lowest common multiple?

3) Oh no! The maths machine has broken! Can you help identify the prime numbers by circling the correct balls?



Factors, Multiples and Prime Numbers **Answers**

Question	Answer												
1.													
	a) What is the highest common factor of 24 and 36? <u>12</u> b) What is the highest common factor of 21 and 54? <u>3</u> c) What is the highest common factor of 19 and 48? <u>1</u>												
2.	Work out the lowest common multiple of each pair of linked numbers.												
	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">2 and 6 <u>6</u></td> <td style="width: 50%; border: none;">2 and 10 <u>10</u></td> </tr> <tr> <td style="border: none;">6 and 10 <u>30</u></td> <td style="border: none;">10 and 12 <u>60</u></td> </tr> <tr> <td style="border: none;">6 and 12 <u>12</u></td> <td style="border: none;">2 and 12 <u>12</u></td> </tr> </table> <p>Which pairs of numbers have the same lowest common multiple? <u>6 and 12, 2 and 12</u></p>	2 and 6 <u>6</u>	2 and 10 <u>10</u>	6 and 10 <u>30</u>	10 and 12 <u>60</u>	6 and 12 <u>12</u>	2 and 12 <u>12</u>						
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	<table style="width: 100%; border: none; text-align: center;"> <tr> <td style="border: 1px solid black; border-radius: 50%; padding: 10px;">45</td> <td style="border: 3px double black; border-radius: 50%; padding: 10px;">59</td> <td style="border: 1px solid black; border-radius: 50%; padding: 10px;">32</td> <td style="border: 1px solid black; border-radius: 50%; padding: 10px;">21</td> </tr> <tr> <td style="border: 1px solid black; border-radius: 50%; padding: 10px;">134</td> <td style="border: 1px solid black; border-radius: 50%; padding: 10px;">121</td> <td style="border: 1px solid black; border-radius: 50%; padding: 10px;">85</td> <td style="border: 3px double black; border-radius: 50%; padding: 10px;">73</td> </tr> <tr> <td style="border: 3px double black; border-radius: 50%; padding: 10px;">53</td> <td style="border: 1px solid black; border-radius: 50%; padding: 10px;">147</td> <td style="border: 3px double black; border-radius: 50%; padding: 10px;">163</td> <td style="border: 1px solid black; border-radius: 50%; padding: 10px;">171</td> </tr> </table>	45	59	32	21	134	121	85	73	53	147	163	171
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