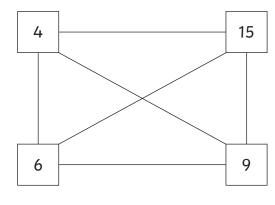
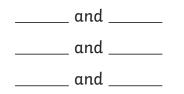
I can identify common factors, common multiples and prime numbers.

- 1) What is the highest common factor of 32 and 52 multiplied by the highest common factor of 12 and 48?
- 2) Work out the lowest common multiple of each pair of linked numbers.



4 and 15	
4 and 9	
4 and 6	
15 and 9	
15 and 6	
9 and 6	

3) Write three pairs of prime numbers that, when added together, create square numbers.



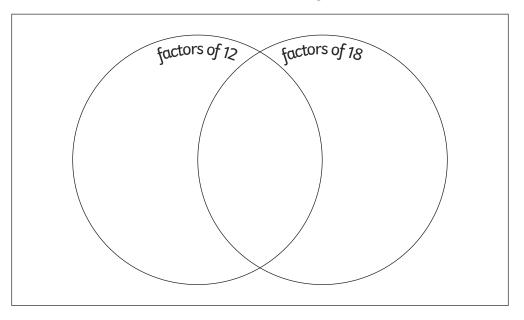




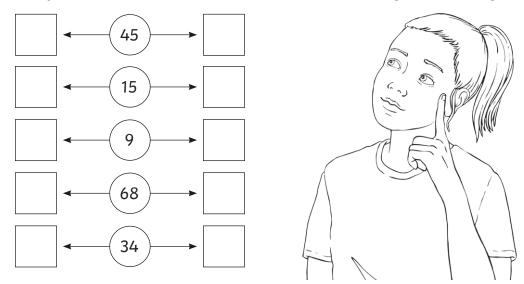
Question	Answer	
1.	What is the highest common factor of 32 and 52 multiplied by the highest common factor of 12 and 48?	
	4 × 12 = 48	
2.	Work out the lowest common multiple of each pair of linked numbers.	
	4 and 15 60	15 and 9 45
	4 and 9 <u>36</u>	15 and 6 <u>30</u>
	4 and 6 <u>12</u>	9 and 6 <u>18</u>
3.	Write three pairs of prime numbers that, when added together, create square numbers.	
Example answers: 2 and 7, 11 and 5, 13 and 3, 47 and 2, 23 and 2		

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

1) Use the numbers 1-18 to complete this Venn diagram:

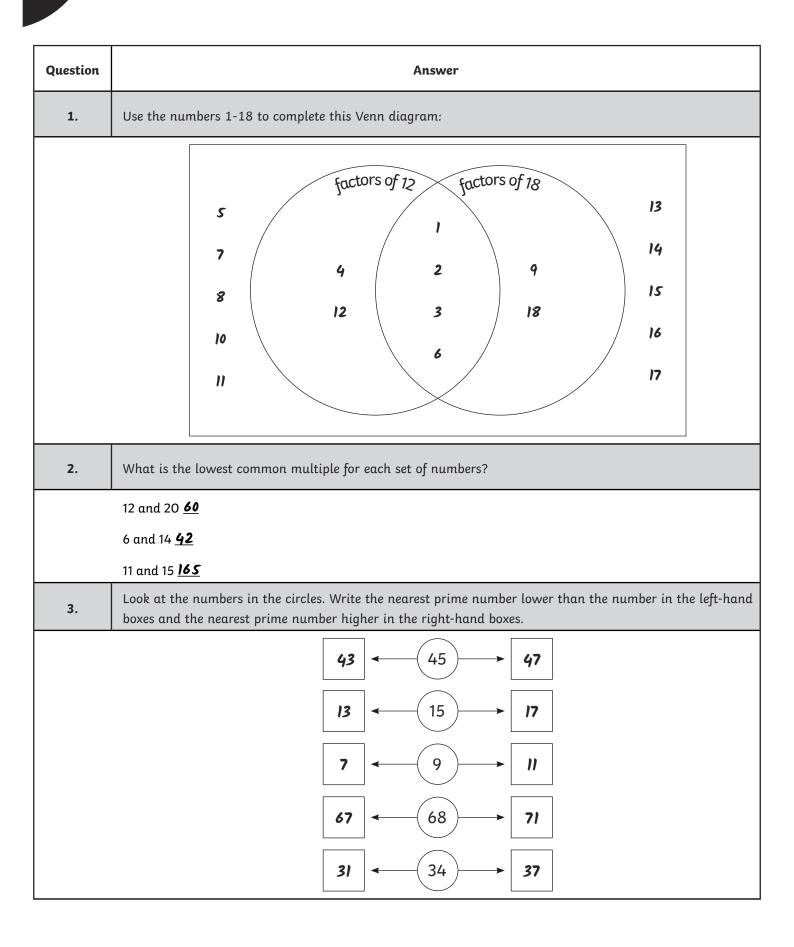


- 2) What is the lowest common multiple for each set of numbers?
 - 12 and 20 _____
 - 6 and 14 _____
 - 11 and 15
- 3) Look at the numbers in the circles. Write the nearest prime number lower than the number in the left-hand boxes and the nearest prime number higher in the right-hand boxes.



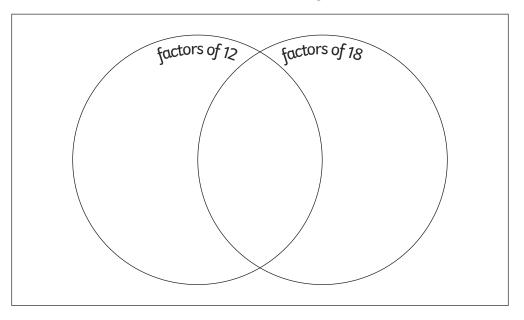
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Factors, Multiples and Prime Numbers Answers

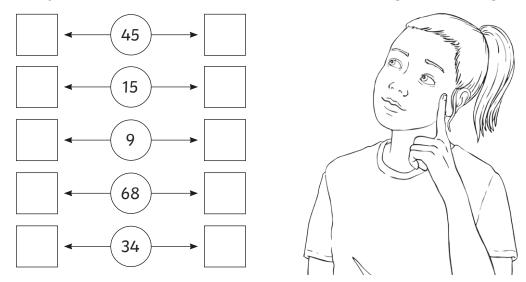


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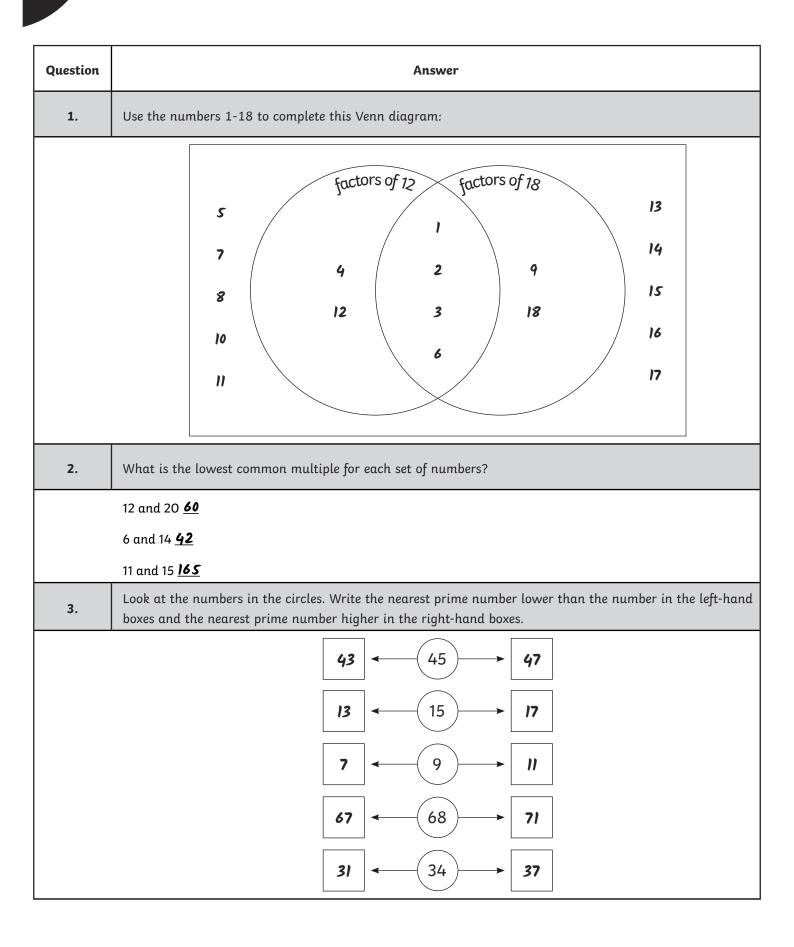


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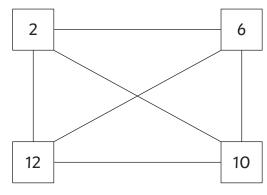
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Factors, Multiples and Prime Numbers Answers



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

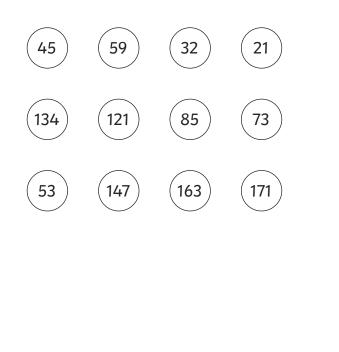
- 1) a) What is the highest common factor of 24 and 36?
 - b) What is the highest common factor of 21 and 54?
 - c) What is the highest common factor of 19 and 48?
- 2) Work out the lowest common multiple of each pair of linked numbers.



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?



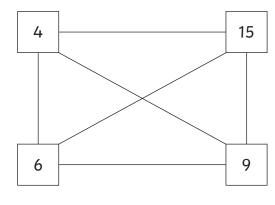




Question	Ans	wer
1.		
	a) What is the highest common factor of 24 and 36? <u>I</u>	2
	b) What is the highest common factor of 21 and 54? <u>3</u>	
	c) What is the highest common factor of 19 and 48? <u>I</u>	
2.	Work out the lowest common multiple of each pair of linked numbers.	
	2 and 6 <u>6</u>	2 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>
	Which pairs of numbers have the same lowest commo	n multiple? <u>6 and 12, 2 and 12</u>
3.	Oh no! The maths machine has broken! Can you help identify the prime numbers by circling	the correct balls?
	45 (59)	32 21
	134 121	85 (73)
	53 147	163 171

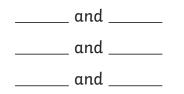
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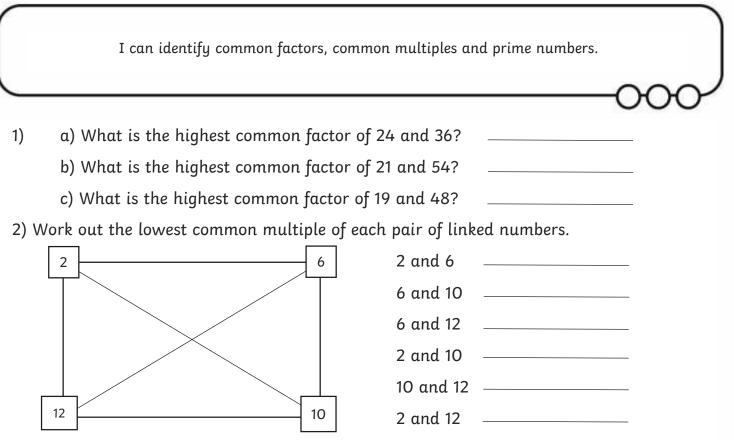
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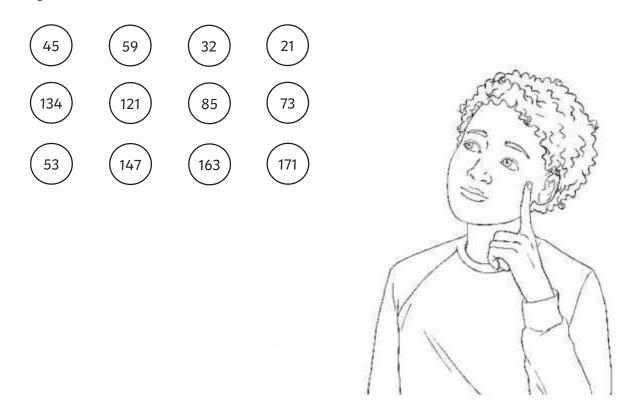


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Factors, Multiples and Prime Numbers Answers

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.	
	2 and 6 6 2 and 10 10 6 and 10 30 10 and 12 60 6 and 12 12 2 and 12 12 Which pairs of numbers have the same lowest common multiple? 6 and 12, 2 and 12	
3.	Oh no! The maths machine has broken! Can you help identify the prime numbers by circling the correct balls?	
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	