
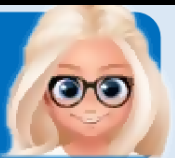
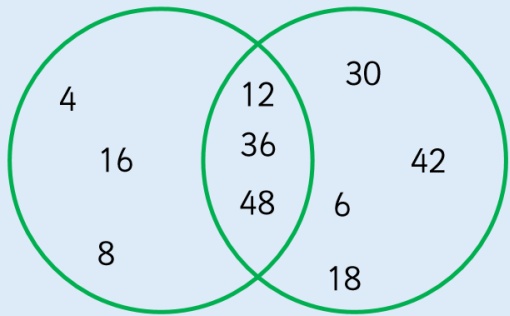


**Lesson 3 Answers**

L.O: I am learning to reason and solve problems involving number facts.

Try your best – it is all we can ask for! 😊

Key vocabulary: common factors, multiples, prime number, square number, cube number	Your answer
<p>Leanna has two pieces of string. One is 150cm long and the other is 250cm long. She cuts them into pieces of equal length.</p>  <p>What are the possible lengths the pieces of string could be?</p>	<p>1, 2, 5, 10, 25 and 50 are the possible lengths.</p>
<p>Esin has 30 football cards that she is giving away to her friends. She shares them equally.</p>  <p>How many friends could Esin have?</p>	<p>1, 2, 3, 5, 6, 10, 15, or 30</p>
<p>Work out the headings for the Venn diagram. Add in one more number to each section.</p>  <p>Can you find a square number that will go in the middle of the Venn diagram?</p>	<p>Multiples of 4. Multiples of 6.</p> <p>144 is a square number that can go in the middle.</p>
<p>Use the clues to work out the number.</p> <ul style="list-style-type: none"> <li>• It is greater than 10</li> <li>• It is an odd number</li> <li>• It is not a prime number</li> <li>• It is less than 25</li> <li>• It is a factor of 60</li> </ul>	<p>15</p>

Place 5 odd and 5 even numbers in the table.

	Not Cubed	Cubed
Over 100		
100 or less		

Possible cube numbers to use:

8, 27, 64, 125, 216, 343, 512, 729, 1000

Gareth chooses a **square number**.

He rounds it to the nearest hundred.

His answer is 100.

Write **all** the possible square numbers that Gareth could have chosen

64 81 100 121 144

Write different number sentences using the digits 2, 3, 4 and 7 before the equals sign that use:

- One operation
- Two operations with no brackets
- Two operations with brackets

Possible solutions:

$$47 - 23 = 24$$

$$47 + 2 \times 3 = 53$$

$$4(7 - 2) + 3 = 23$$

Matthew says that  $9 + 4 \times 2 = 26$



Is Matthew correct? Explain why

Yes / (No)

$$4 \times 2 = 8$$

$$9 + 8 = 17$$

Matthew has added before multiplying, which is wrong