
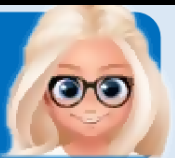
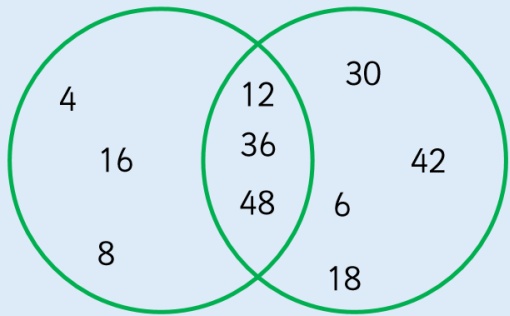


Lesson 3 Reasoning and Problem Solving

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>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>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>Use the clues to work out the number.</p> <ul style="list-style-type: none"> • It is greater than 10 • It is an odd number • It is not a prime number • It is less than 25 • It is a factor of 60 | |

Week 7_Maths_Lesson 3

Place 5 odd and 5 even numbers in the table.

| | Not Cubed | Cubed |
|-------------|-----------|-------|
| Over 100 | | |
| 100 or less | | |

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

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

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



Is Matthew correct? Explain why