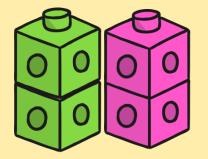
Factor Pairs

A task setting PowerPoint pack about factor pairs



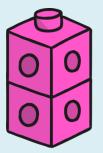
110 120



LO: To identify factor pairs for a number.

- To recall multiplication facts for times tables up to 12.
- To show factor pairs using arrays.

Starter

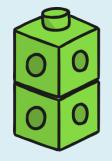


Get into pairs.

Collect 16 number cubes.

Can you arrange your 16 cubes in an array? You can choose any array you like.

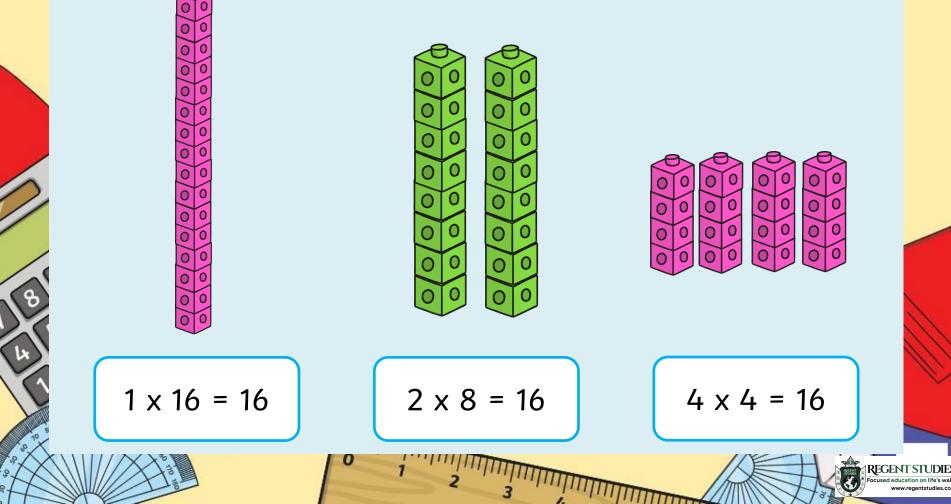
Remember, each column and row in your array must contain the same number of cubes.



REGENT STUDIES

Starter

For the number 16 you can have 3 arrays.



These arrays have shown us the different pairs of numbers that multiply together to make 16. Pairs of numbers that **multiply** to make a particular number are called **factor pairs**!

$$2 \times 8 = 16$$

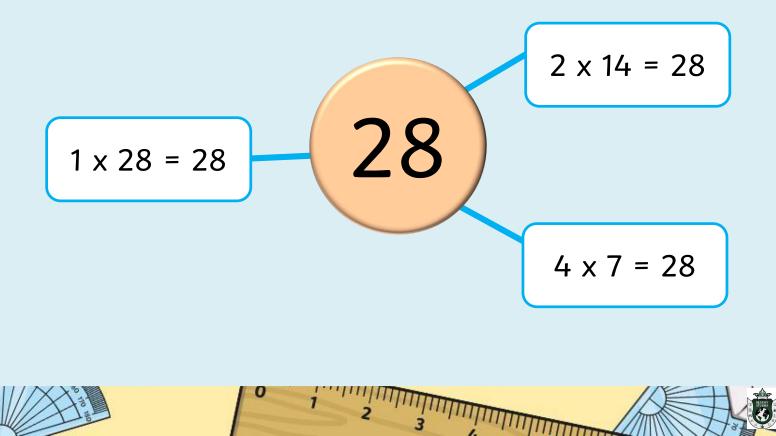
 $1 \times 16 = 16$
 $4 \times 4 = 16$

Lets see how many factor pairs we can think of for the number

28

REGENT STUD

For the number 28, there are 3 factor pairs.



Factor rainbows show us the different factor pairs for a number in a fun way!

1. Write out the factor pairs in numerical order.

2. Join the factor pairs back up with each other using the colours of the rainbow.

7 14 28

Factors of 28

Activity

In your pair, make a poster to show the factor pairs for the number you are given.

Show the factor pairs using

Number sentences

Arrays

A factor rainbow

7 14 28

Activity

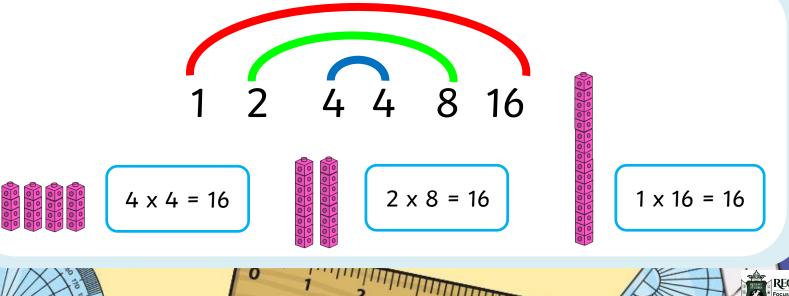
In your pair, make a poster to show the factor pairs for the number you are given.

Show the factor pairs using

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Arrays

A factor rainbow



Extension

A **prime number** is a number that will only divide by **itself** and **1**. That means that there is only one factor pair for a prime number, the number and 1.

Here is an example.

How many more prime numbers can you find?

Write the prime numbers as a factor pair.



Plenary Factor Pair Bingo

- Each pair will be given a bingo card and on the bingo card are factor pairs.
- Numbers will be read out and you need to work out if any of your factor pairs belong to that number.
- If they do, circle your factor pair.
- When you have completed your sheet. Shout **bingo**!

