



Power Up

Complete the number sentences using $<$, $>$ or $=$ or by writing a number.

$$3 \times 6 = 2 \times \square$$

$$\square \times 9 < 5 \times 4$$

$$4 \times 7 \bigcirc 8 \times 3$$

$$8 \times 6 \bigcirc 12 \times 4$$

$$11 \times 3 \bigcirc 7 \times 5$$

$$7 \times 8 > \square \times 5$$

Make up some more number sentences for your partner to complete.

I can see more than one way of solving some of these calculations.



LO: To identify factor pairs.

Recap- what is a factor?

LO: To identify factor pairs.

What does this word mean?

Factor

A factor is a number or quantity that when multiplied with another produces a given number

LO: To identify factor pairs.

How can we find factor pairs?

LO: To identify factor pairs.

Remember that factor pairs are the numbers that multiply together to make a number.

For example: 36

The factor pairs of 36 are in any times tables that multiply to make 36.

E.g. $1 \times 36 = 36$ $2 \times 18 = 36$ $3 \times 12 = 36$

$4 \times 9 = 36$ $6 \times 6 = 36$

Remember you can use arrays to find these too!

LO: To identify factor pairs.

- Success Criteria:
- Represent number in arrays
- Move arrays to find another pair
- Keep going until all have been found
- Remember 1 and the number itself are factors

LO: To identify factor pairs.

Fluency

Fluency

1.

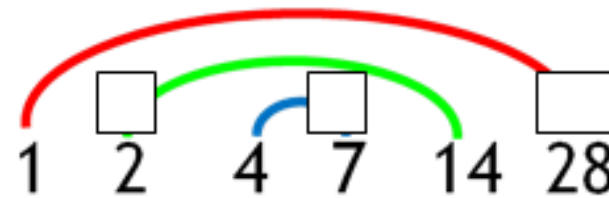
What factor pairs for 12 do these arrays show?



Use counters to create arrays for 24. How many factor pairs can you find?

2. Complete these factor rainbows.

This rainbow is for 28.



This rainbow is for 16.



3. Draw your own factor rainbow for 20.

4. Draw your own factor rainbow for 48.

LO: To identify factor pairs.

Reasoning



Reasoning

Julius the Roman says:

The bigger the number, the more factor pairs it will have.

Do you agree with Julius?
Explain why/ why not.

Reasoning

True or False?

An even number always has an even number of factor pairs and an odd number always has an odd number of factor pairs.

Is this true or false?

Prove it.

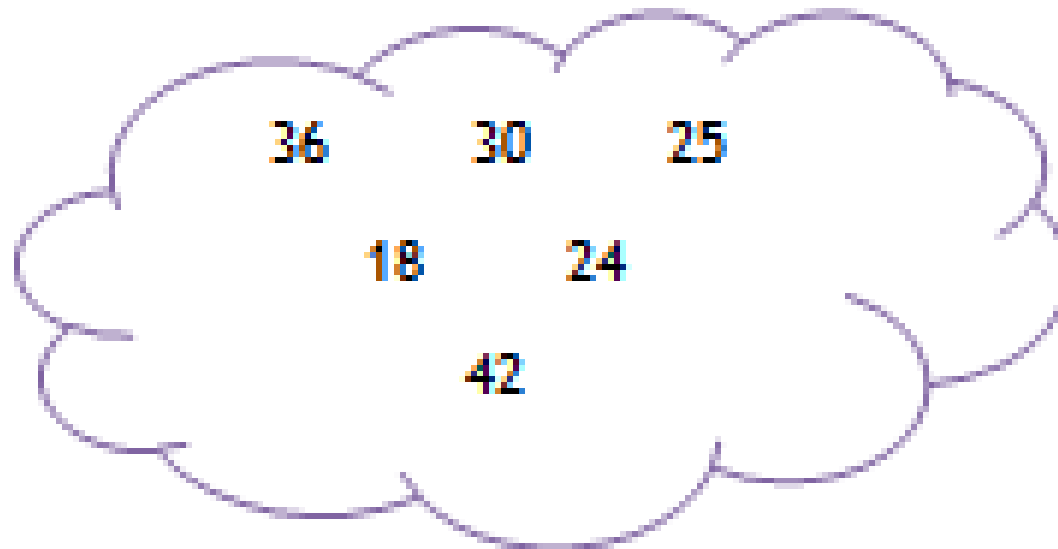
LO: To identify factor pairs.

Problem solving

Problem Solving

Odd One Out

Circle the number which does not have 6 as a factor then explain your choice.



LO: To identify factor pairs.

#Challenge:

Do you notice a number that always appears when finding factor pairs?