## Try this

1) Fill in the gaps in the following equations:

2) How many ways can you fill in the following blanks?

$$
36=\ldots \times \ldots \times \ldots
$$

## Connect

## Representing Integers



1) What do you notice about multiples of 3 ?
2) What do you notice about multiples of 4 ?
3) Is there another way you could have drawn any of these diagrams?

## Connect

Two students discuss their strategy for counting dots in this diagram. Who do you agree with and why?


Count the dots in a different way


## Connect

A student drew two different pictures to visualise: $4 \times$
6


Draw a similar diagram to represent $5 \times 3$

## Independent task

Fill in the gaps. Some of the missing words/numbers may be used more than once
Representing a number using diagrams can reveal some of its properties.

One of the ways of representing $\qquad$ could be:


This representation shows that $\qquad$ and $\qquad$ are both factors of $\qquad$ .


One way of representing 7 could be:
This representation helps to show that 7 only has $\qquad$ factors and is therefore $\qquad$ -

## Explore

What sequence of numbers are the groups of dots representing?


What could the next pattern look like?
What can you tell about the numbers from the representations?

