## Number Problems

## Learning Objective:

To solve multiplication and division problems

## Multiplication arrays

How can we easily solve $3 \times 5$ ?
$3 \times 5$ is the same as saying: "3 groups of 5".

If we make the groups, we can easily find the answer.

## Multiplication arrays

Let's make those groups.
Remember, 3 groups of 5; write them on a piece of paper.


## Multiplication arrays

If we rotate the array, is the answer still the same?

Yes!

5 groups of 3 is the same as having 3 groups of 5 .
$5 \times 3=15$
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## Division arrays

We can use the array to solve division.
$15 \div 3=$


## Division arrays

15 divided into 5 groups makes 5 groups of 3 .
$15 \div 5=3$
Think back to the multiplication sum. Can you see the link?


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## Word Problems

Read these word problems. What is the sum you need to do?

1. There are 30 cakes and 10 people at a party. How many cakes can each person eat?
2. There are 5 year groups in a school. Each year group has 6 teachers. How many teachers are there altogether?

Task: Now use your knowledge of the 2, 5 and 10 times tables to complete the multiplication and division calculations in the 'number problems' activity.

Remember - always perform a quick check with the inverse!

