## Multiply Fractions by whole numbers

## In this lesson:

- you will understand that multiplication is the same as repeated addition.
- you will be able to use a fraction diagram to multiply proper fractions by whole numbers.
- you will be able to give the answer to a multiplication calculation as a mixed number.




## Fraction Flowers




## Multiplying Fraction Flowers



## Multiplying Fraction Flowers

Multiplying a fraction by a whole number is the same as repeated addition.


## Multiplying Fraction Flowers

The answer to this fraction multiplication is an improper fraction:

The answer can be written as an equivalent mixed number:


## Multiplying Fraction Flowers

Multiplying a fraction by a whole number is the same as repeated addition.

## 2 <br> $\frac{2}{5} \times 4$

## Multiplying Fraction Flowers

The answer to this fraction multiplication is an improper fraction:


The answer can be written as an equivalent mixed number:


## Investigate It

Look at the calculations we have completed so far.

What happens to the numerator when you multiply a fraction by a whole number?

What happens to the denominator when you multiply a fraction by a whole number?
$\frac{1}{3} \times 5=\frac{5}{3}$

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## Investigate It

We multiply the denominator by one.
$4 \times 1=4$


We multiply the denominator by one.
$3 \times 1=3$
$\frac{3}{4} \times 3=\frac{9}{4}$

We multiply
the denominator
$5 \times 1=5$

Your turn- Complete p3 in your maths booklet


