## Multiply a fraction by a whole number

Mr Kelsall

## New learning: multiplying fractions

Ciaran spends a quarter of an hour running. He runs three times per week.
How long does he spend running?

Draw

Repeated addition

Fraction

Model

Multiplication

Number line

## New learning: multiplying fractions <br> One blink of an eye takes 3/10 of a second. How long will three blinks take?

Draw

Repeated addition

Fraction

Model

Multiplication

Number line

## New learning: multiplying fractions

How would you solve these calculations?
Can you draw them?
$1 / 5 \times 3$
$2 / 9 \times 4$
$3 \times 2 / 7$

## Develop learning: multiplying fractions

What do you notice about these calculations?
$\frac{1}{4} \times 3=\frac{3}{4}$
$\frac{3}{10} \times 3=\frac{9}{10}$
$\frac{1}{7} \times 5=\frac{5}{7}$
$\frac{1}{12} \times 8=\frac{8}{12}=\frac{2}{3}$
$\frac{3}{15} \times 2=\frac{6}{15}$

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\frac{2}{9} \times 4=\frac{8}{9}
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## Develop learning: multiplying fractions

One cup holds a quarter of a litre of liquid, how much liquid will five cups hold? How is this questions different to previous ones?

## Develop learning: multiplying fractions

A ribbon is $2 / 3$ of a metre long. Another ribbon is five times the length, how long is it?

## Independent task: multiplying fractions

| A small bottle hold one fifth of a litre of |
| :--- |
| liquid. How much will seven bottles hold? |
| The length of a rectangle is 12 cm and |
| the width is $\frac{1}{10} \mathrm{~cm}$. What is the area of this |
| $\frac{2}{7} \times 5$ |

## Independent task: multiplying fractions



