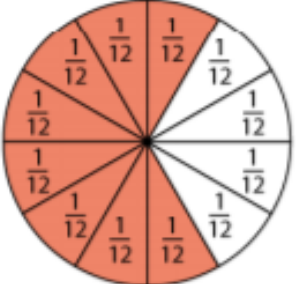




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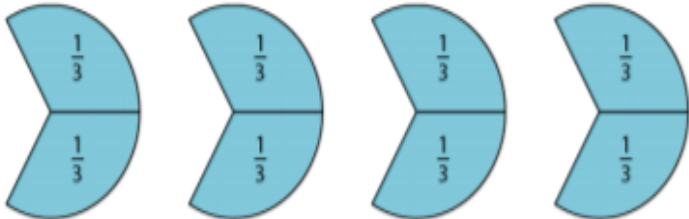
Representing fractions as multiplication



$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$
 $\underline{\quad} \times \underline{\quad} \quad \underline{\quad} \times \underline{\quad}$

$\frac{1}{9} + \frac{1}{9} + \frac{1}{9} = \square \times \frac{1}{9}$
 $\frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} = \square \times \frac{1}{9}$
 $\frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} = 5 \times \square$
 $\frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} = \frac{1}{9} \times \square$

$\square = 6 \times \frac{1}{8}$
 $\square = \frac{1}{8} \times 5$



$\frac{3}{5} + \frac{3}{5} + \frac{3}{5} + \frac{3}{5} = \square \times \frac{3}{5}$
 $\frac{3}{5} + \frac{3}{5} + \frac{3}{5} + \frac{3}{5} + \frac{3}{5} + \frac{3}{5} = 6 \times \square$
 $\square = 3 \times \frac{2}{7}$
 $\square = \frac{8}{7} \times 4$

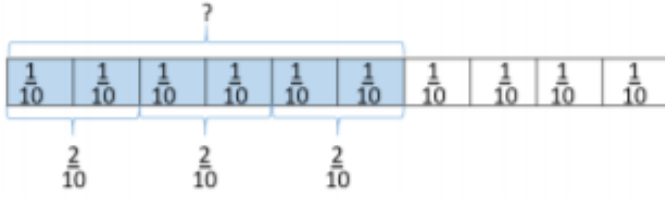
$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$
 $\underline{\quad} \times \underline{\quad} \quad \underline{\quad} \times \underline{\quad}$



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Multiplying fractions by a whole number

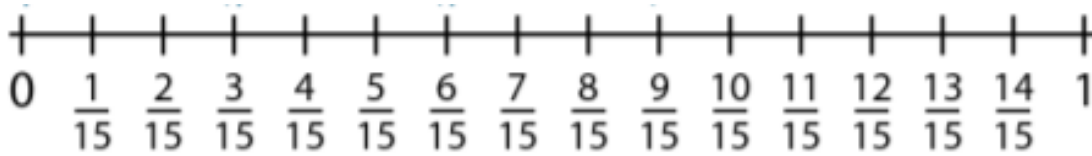
Use the model to help you solve $3 \times \frac{2}{10} = \frac{\square}{\square}$



$$= \frac{\square}{\square}$$

$$\frac{3}{15} \times 3 = \frac{\square}{\square}$$

Use the number line to show how to work out this equation.



$$\frac{3}{20} \times 4 = \frac{\square}{\square}$$

$$3 \times \frac{5}{18} = \frac{\square}{\square}$$

$$6 \times \frac{2}{14} = \frac{\square}{\square}$$

$$\frac{4}{11} \times 2 = \frac{\square}{\square}$$

In a sports session, Year 4 run $\frac{2}{9}$ km 3 times. How far did they run in total?



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CHALLENGE

Amir is multiplying fractions by a whole number.



$$\frac{1}{5} \times 5 = \frac{5}{25}$$

Can you explain his mistake?

I am thinking of a unit fraction.

When I multiply it by 4 it will be equivalent to $\frac{1}{2}$

When I multiply it by 2 it will be equivalent to $\frac{1}{4}$

What is my fraction?

1.

What do I need to multiply my fraction by so that my answer is equivalent to $\frac{3}{4}$?

Can you create your own version of this problem?

2.

You need to multiply it by _____

Own version:

Journalling moment!

'How many ways can you complete this equation?'

$$\frac{24}{25} = \square \times \frac{\square}{25}$$
