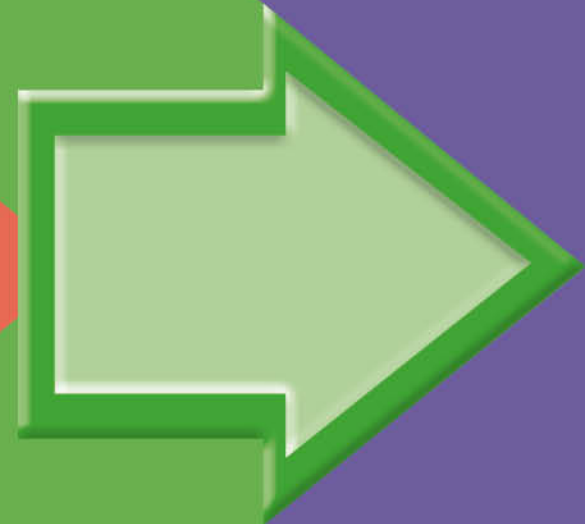


# EQUIVALENT FRACTIONS



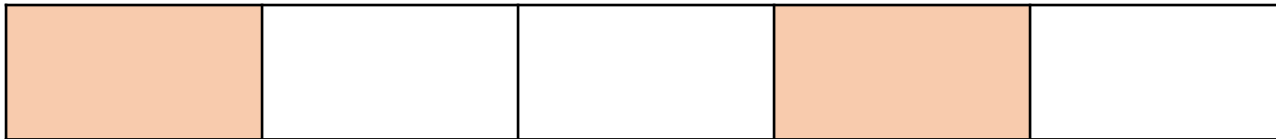
**GET READY**



1) Circle the non-unit fractions

$$\frac{2}{5} \quad \frac{1}{7} \quad \frac{4}{5} \quad \frac{5}{6} \quad \frac{1}{9}$$

2) What fraction of the bar is shaded orange?



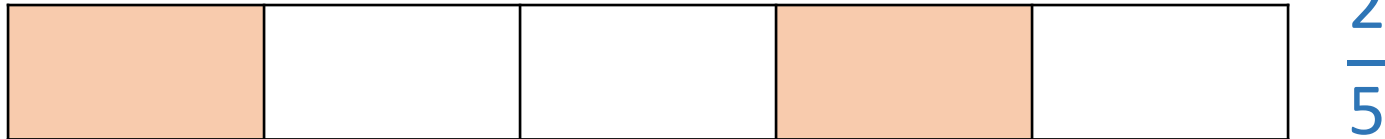
3) What fraction of the bar is shaded blue?



1) Circle the non-unit fractions

$\frac{2}{5}$      $\frac{1}{7}$      $\frac{4}{5}$      $\frac{5}{6}$      $\frac{1}{9}$

2) What fraction of the bar is shaded orange?



3) What fraction of the bar is shaded blue?

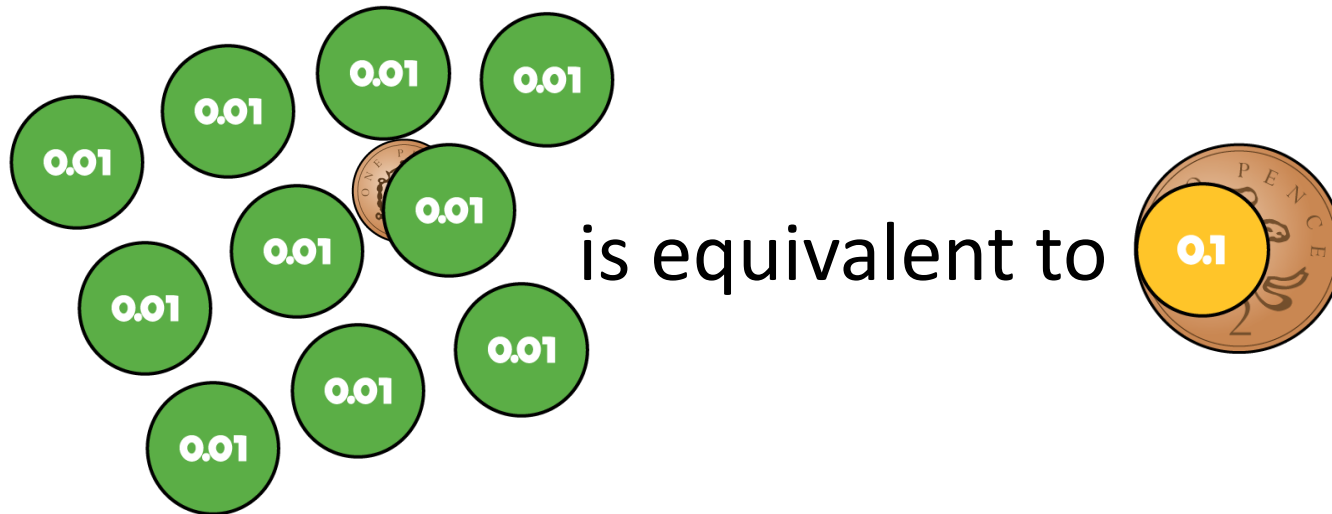


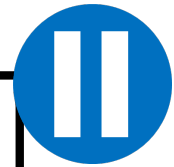
LET'S LEARN



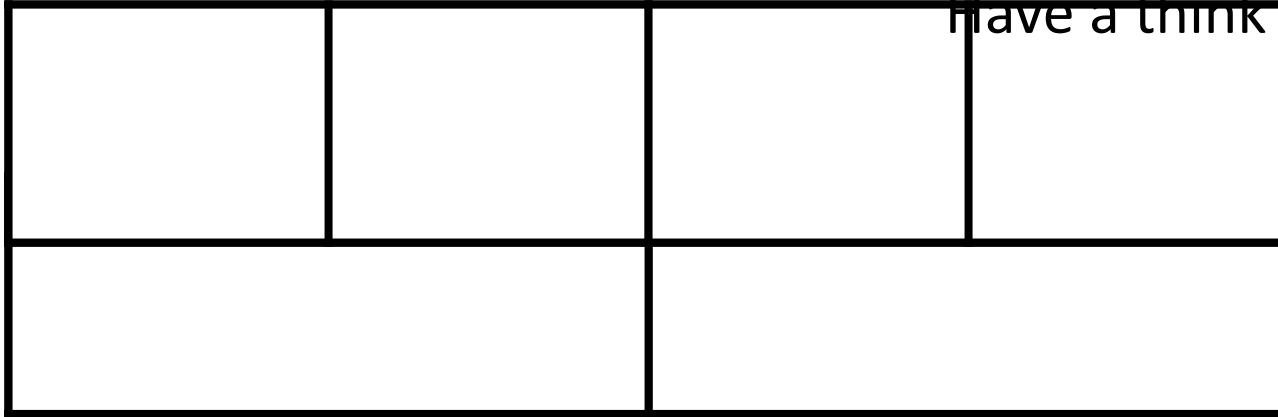
# Equivalent fractions

Equivalent means the same *value* or *amount*.

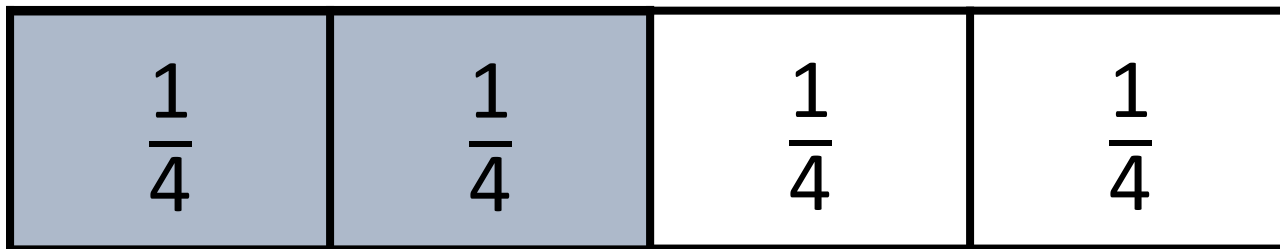
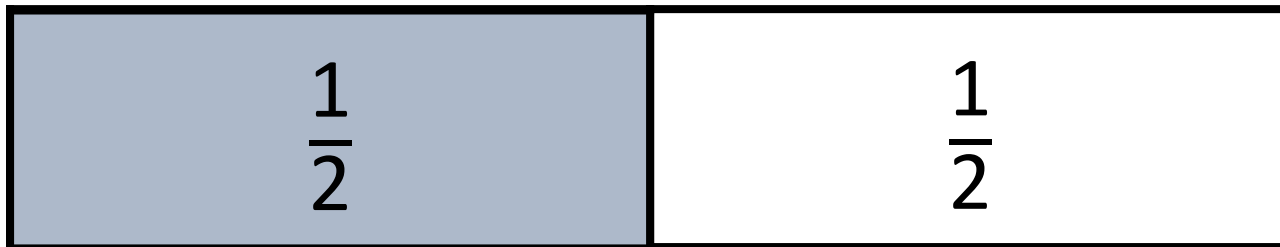




Have a think



Here is a strip of paper.  
What do you notice?  
I cut it into 4 equal pieces.

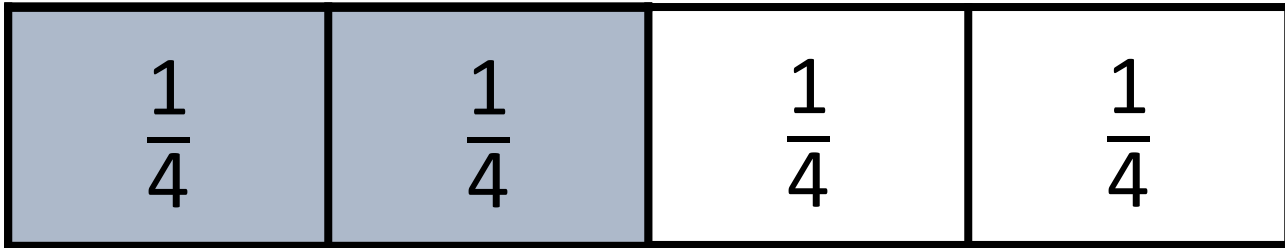
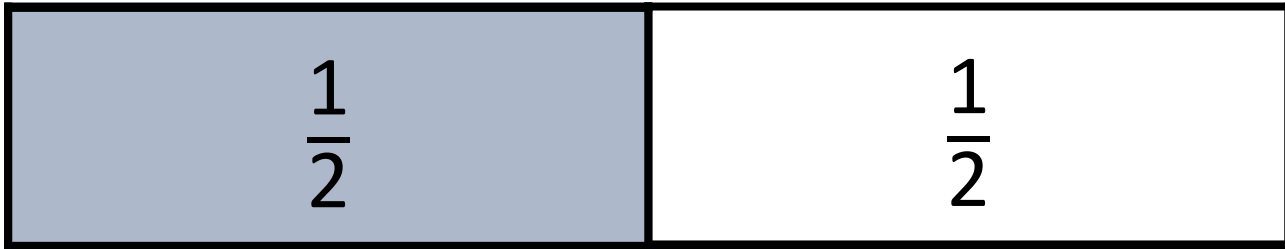


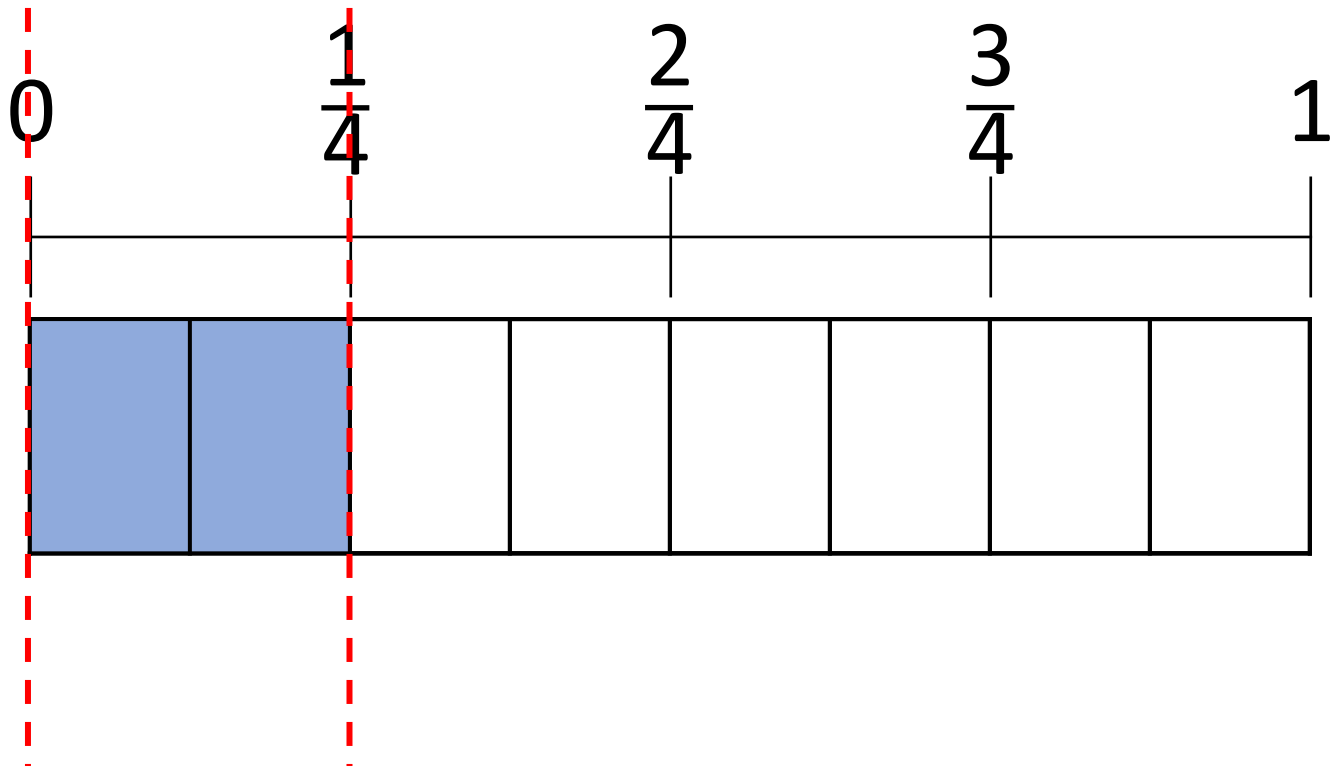
$\frac{1}{2}$  is equivalent to  $\frac{2}{4}$



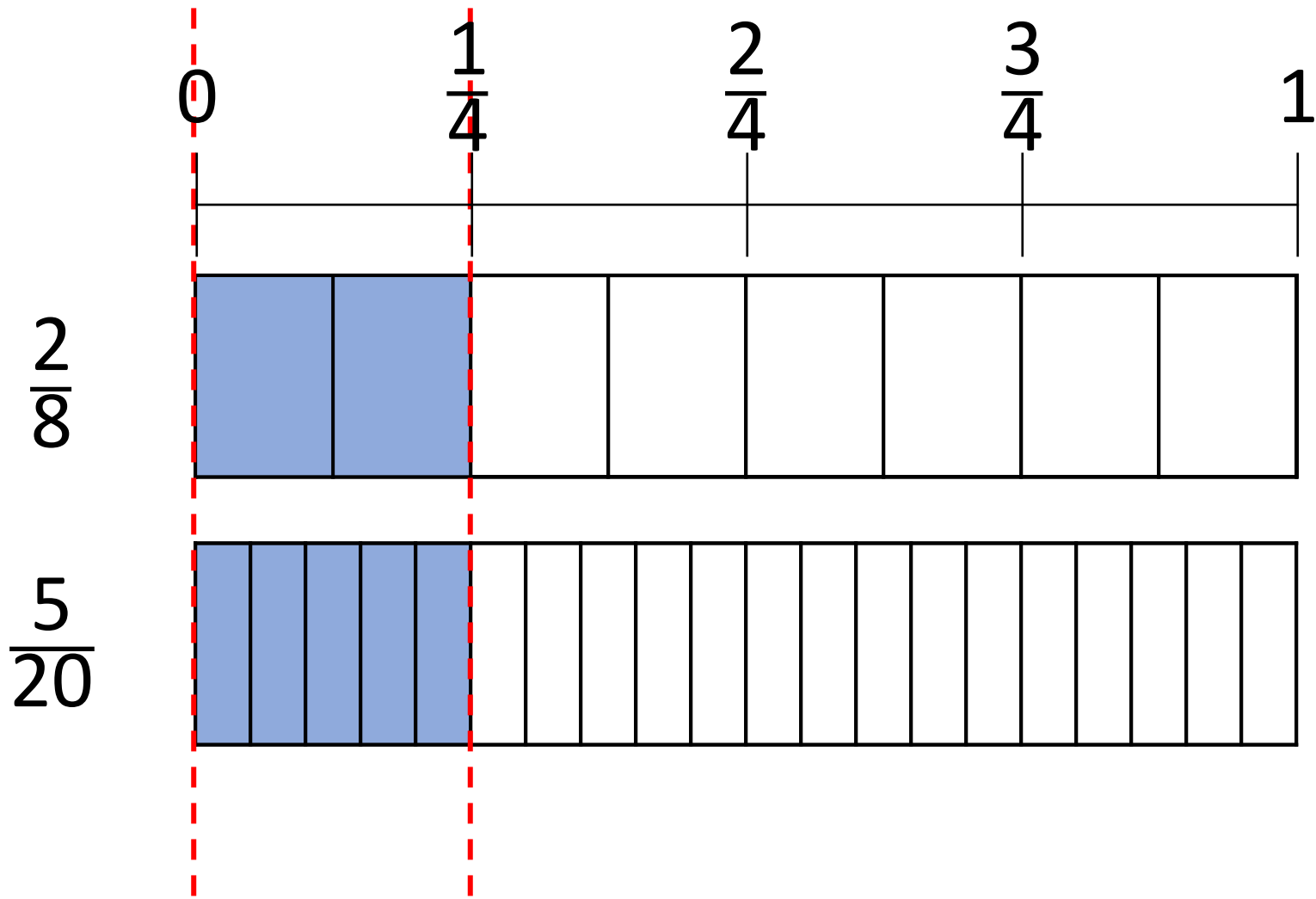
$$\times 2 \left( \frac{1}{2} \right) \div 2$$

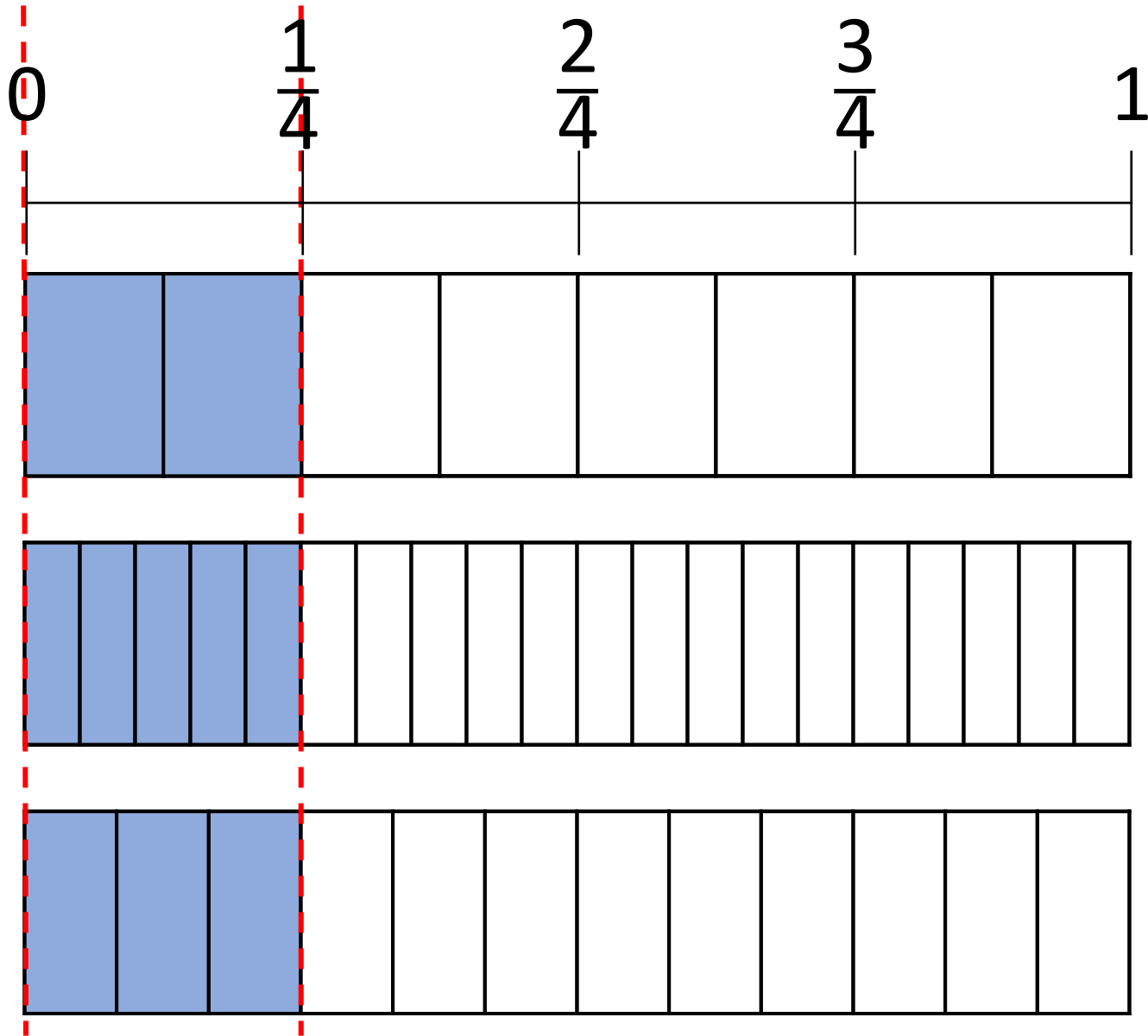
$$\div 2 \left( \frac{2}{4} \right) \times 2$$





$\frac{2}{8}$  is equivalent to  $\frac{1}{4}$





Have a think



$$\frac{1}{4} = \frac{\boxed{\phantom{000}}}{8} = \frac{3}{\boxed{\phantom{000}}} = \frac{\boxed{\phantom{000}}}{20} = \frac{\boxed{\cancel{140}}}{\boxed{\cancel{40}}}$$

Have a think



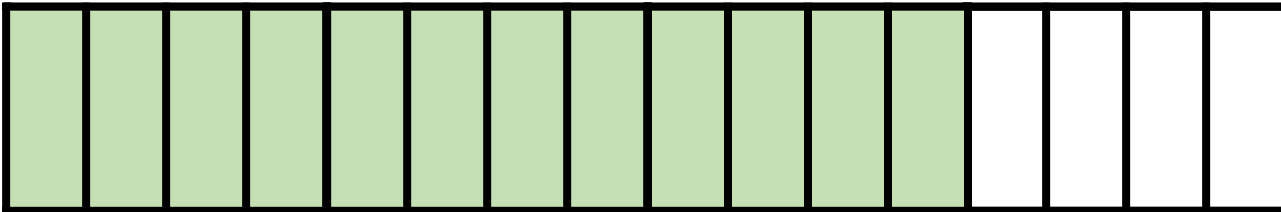
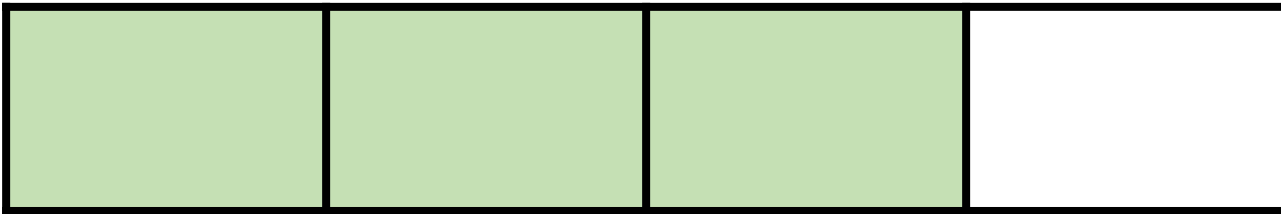
What do you notice?

$$\begin{array}{ccccccccc}
 & & \times 2 & \times 3 & \times 5 & \times 10 & & & \\
 & \swarrow & & \swarrow & & \swarrow & & \swarrow & \\
 & 1 & 2 & 3 & 5 & 10 & & & \\
 \times 4 & \left( \frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{5}{20} = \frac{10}{40} \right) \div 4 & & & & & & & \\
 & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & & & \\
 & & \times 2 & \times 3 & \times 5 & \times 10 & & & 
 \end{array}$$

$$\begin{array}{r} 3 \\ \hline 4 \end{array} = \begin{array}{r} 12 \\ \hline \square \end{array}$$

$\times 4$

$\times 4$



Have a think



$$\begin{array}{r} 3 \\ \hline 4 \end{array} = \begin{array}{r} \square \\ \hline 12 \end{array}$$

$\times 3$

$\times 3$

$$\begin{array}{r} \square \\ \hline 5 \end{array} = \begin{array}{r} 9 \\ \hline 15 \end{array}$$

$\div 3$

$\div 3$



**YOUR TURN**

Have a go at questions  
1 - 4 on the worksheet



Have a think

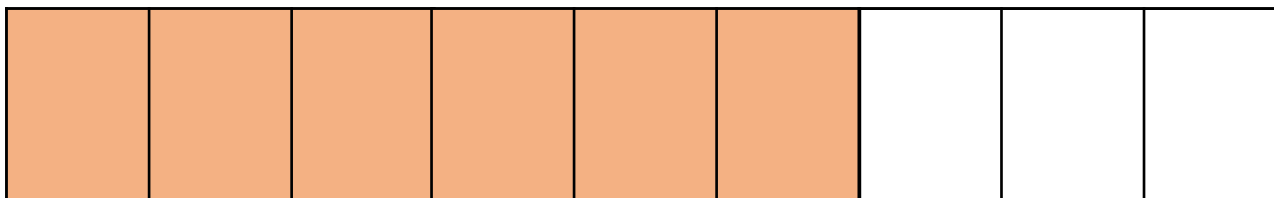
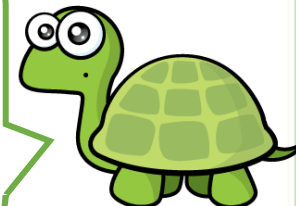


$$\frac{2}{3} = \frac{8}{9}$$

$\times 3$

$\times 3$

I added 6 to both the numerator and denominator.



$$\frac{12}{15} = \frac{40}{\square} = \frac{\square}{5}$$

$\div 3 \times 10$

$\div 8 \times 10$

The diagram shows three equivalent fractions: 12/15, 40/□, and □/5. The first fraction is simplified by dividing both numerator and denominator by 3, resulting in 4/5. The second fraction is found by multiplying the numerator of 4/5 by 10, resulting in 40/□. The third fraction is found by multiplying the denominator of 4/5 by 5, resulting in □/5. Blue arrows and labels indicate these operations: '÷ 3 × 10' for the first step and '÷ 8 × 10' for the second step.

**YOUR TURN**

Have a go at the rest of  
questions on the  
worksheet

