

# EQUIVALENT FRACTIONS



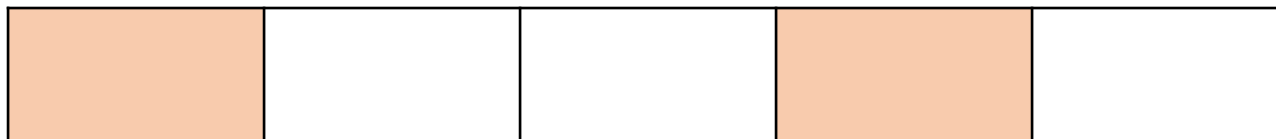
GET READY



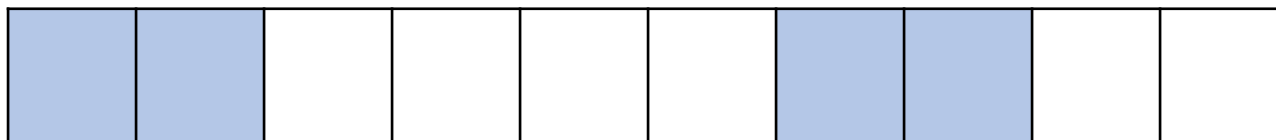
1) Circle the non-unit fractions

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

2) What fraction of the bar is shaded orange?



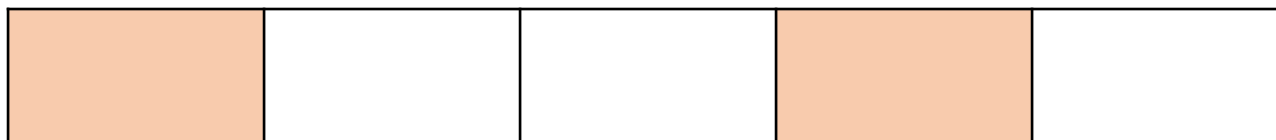
3) What fraction of the bar is shaded blue?



1) Circle the non-unit fractions

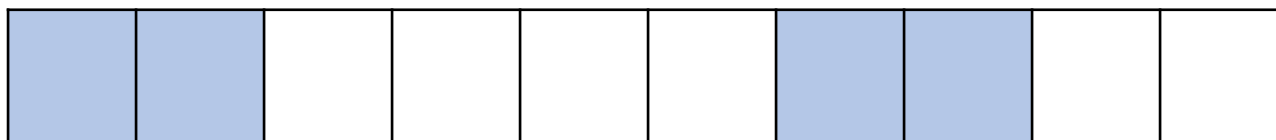
$$\frac{2}{5} \quad \frac{1}{7} \quad \frac{4}{5} \quad \frac{5}{6} \quad \frac{1}{9}$$

2) What fraction of the bar is shaded orange?



$$\frac{2}{5}$$

3) What fraction of the bar is shaded blue?



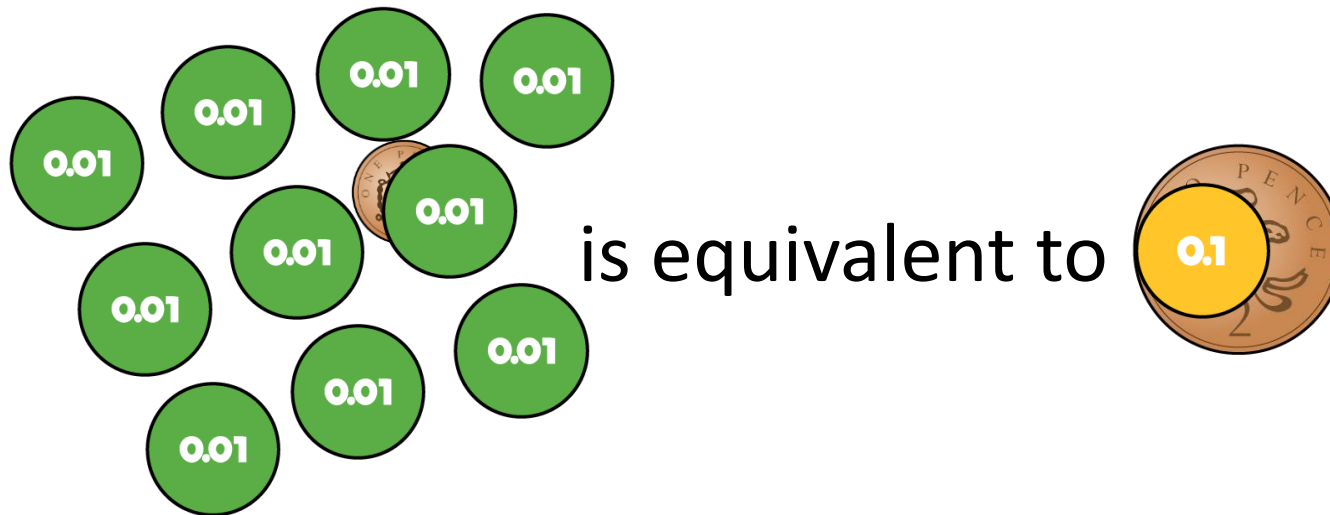
$$\frac{4}{10}$$

LET'S LEARN



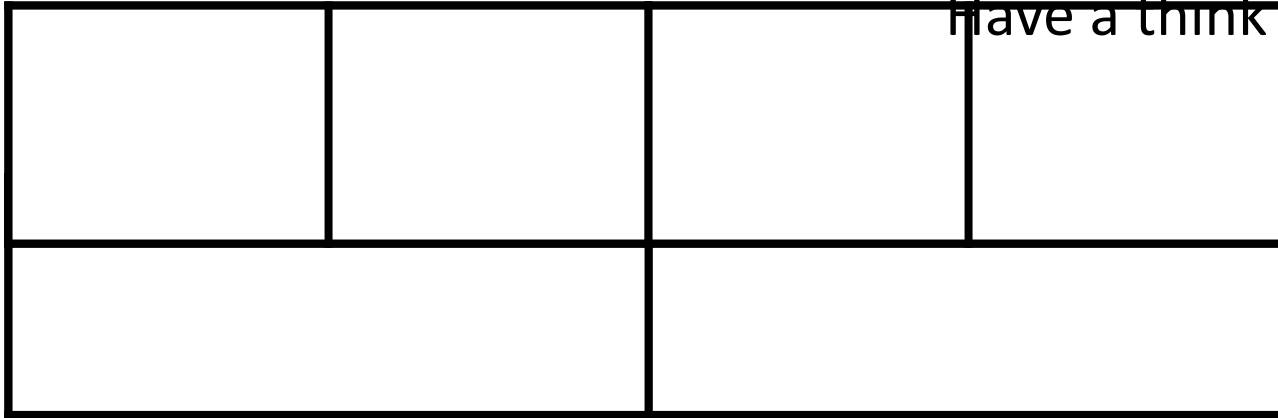
# Equivalent fractions

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

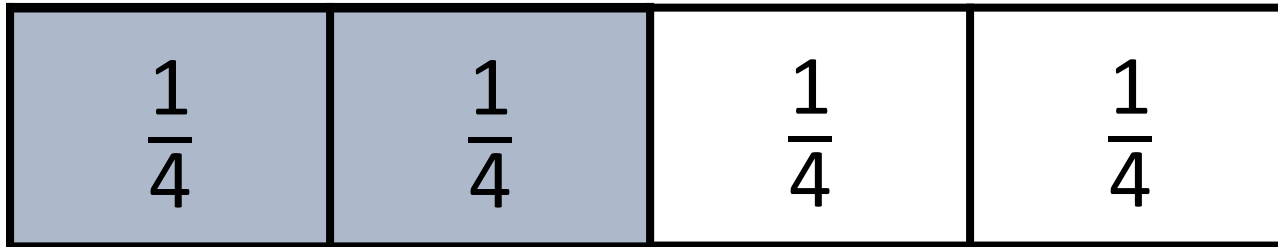
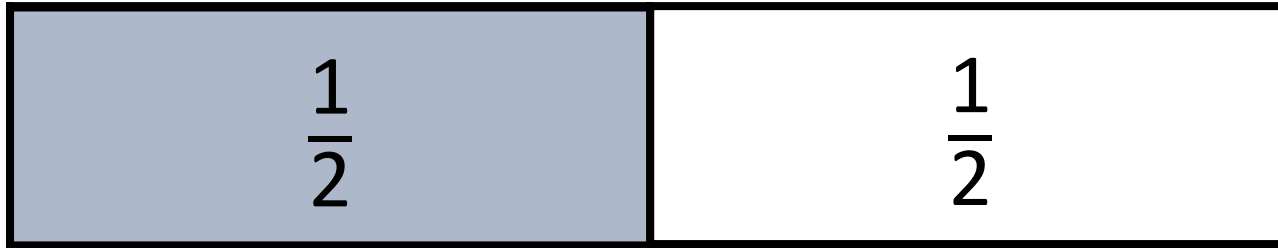




Have a think



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

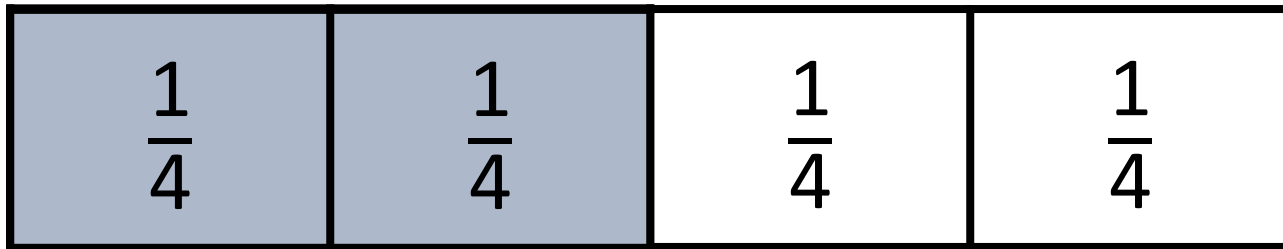
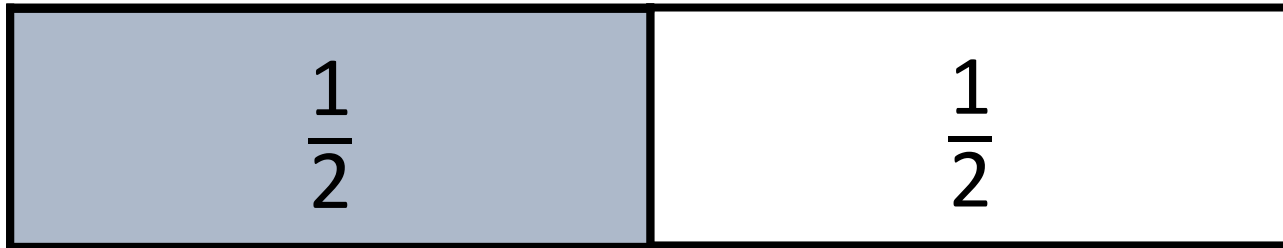


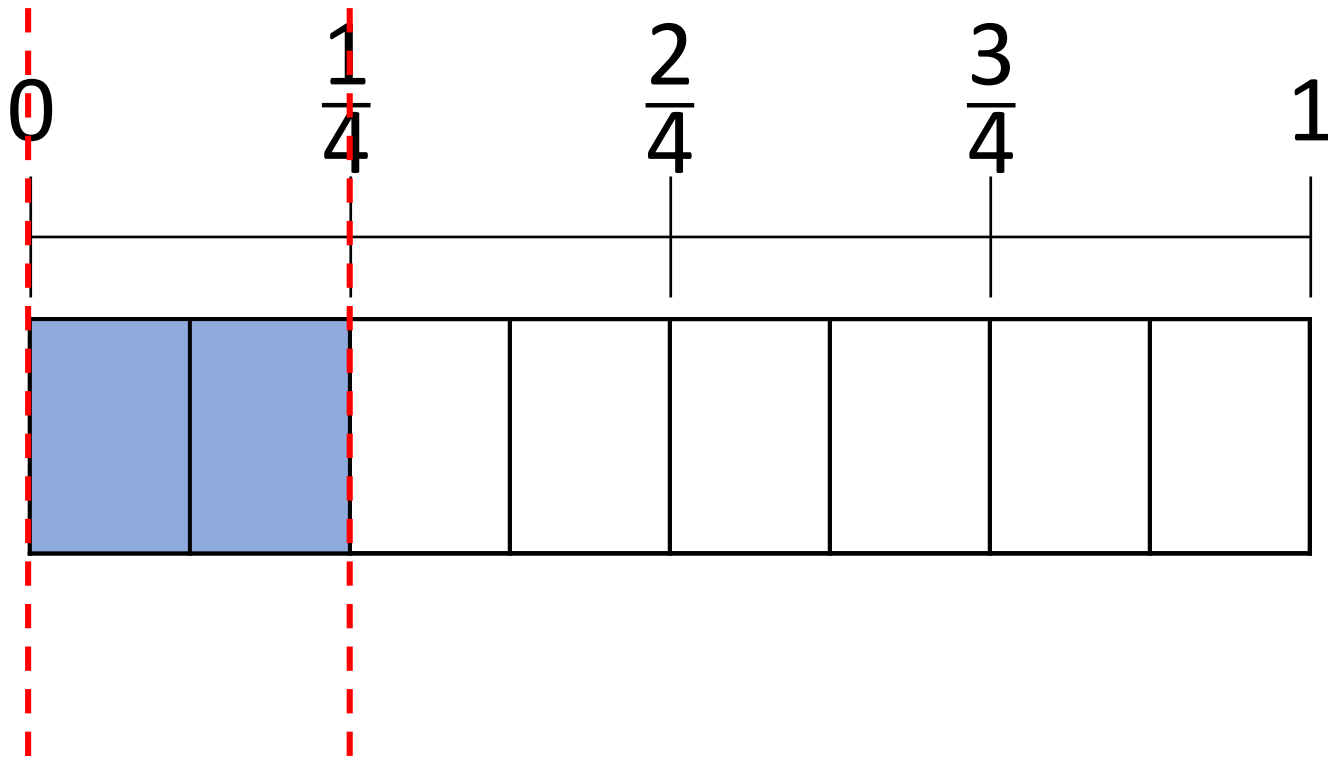
$\frac{1}{2}$  is equivalent to  $\frac{2}{4}$



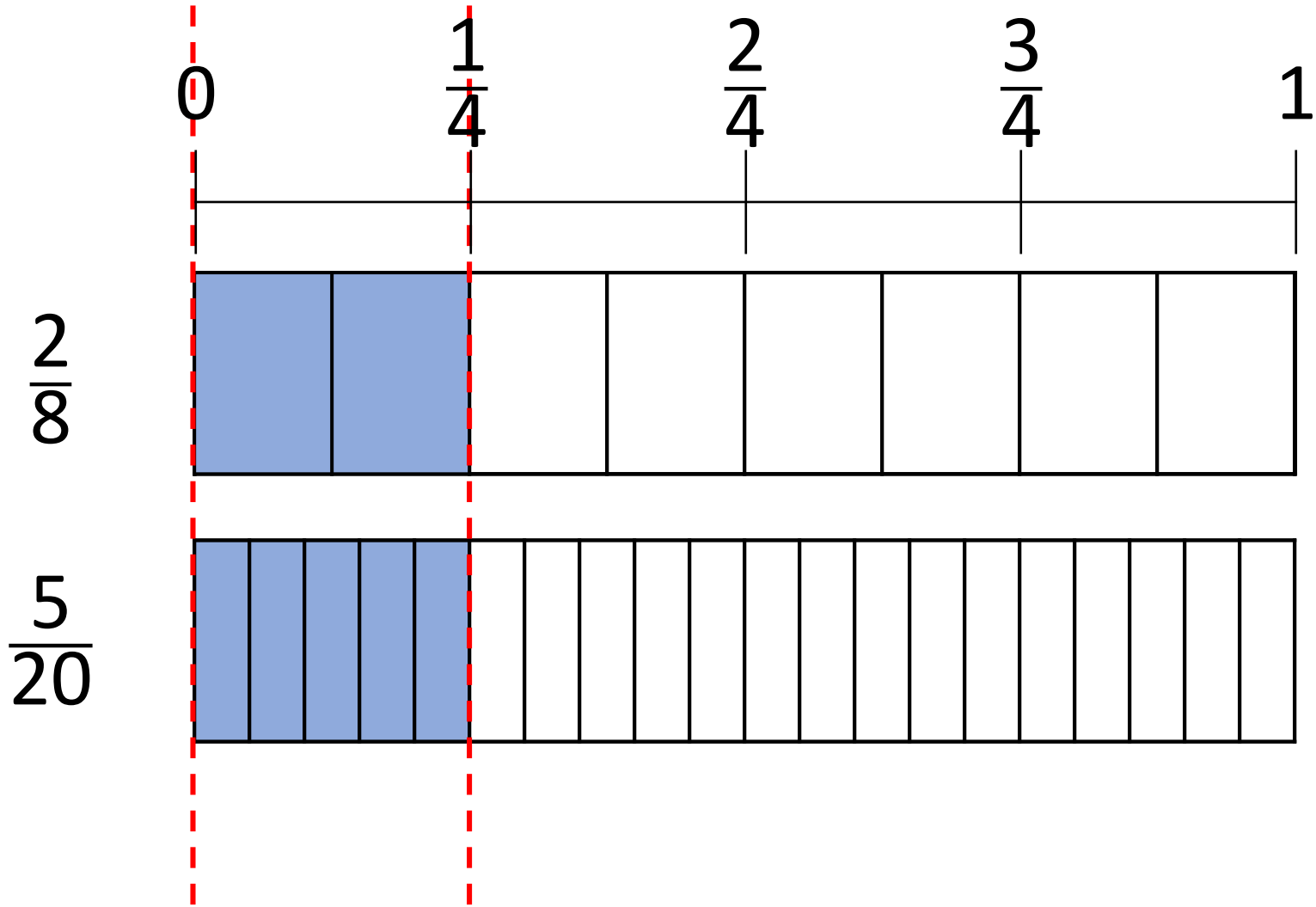
$$\times 2 \left( \frac{1}{2} \right) \div 2$$

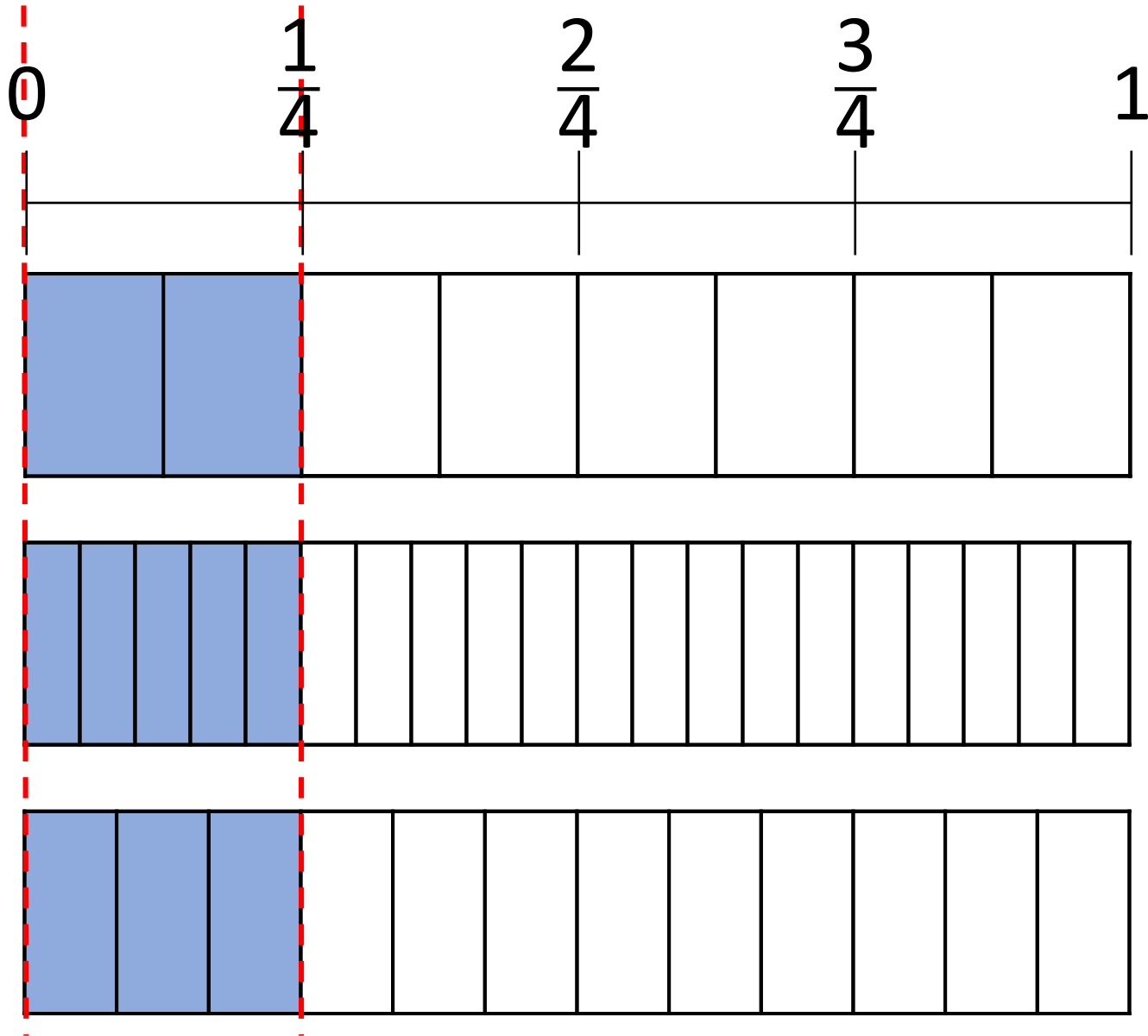
$$\div 2 \left( \frac{2}{4} \right) \times 2$$





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





Have a think



$$\frac{1}{4} = \frac{\boxed{\phantom{00}}}{8} = \frac{3}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{20} = \frac{\boxed{\frac{14}{10}}}{\boxed{\frac{40}{10}}}$$

Have a think



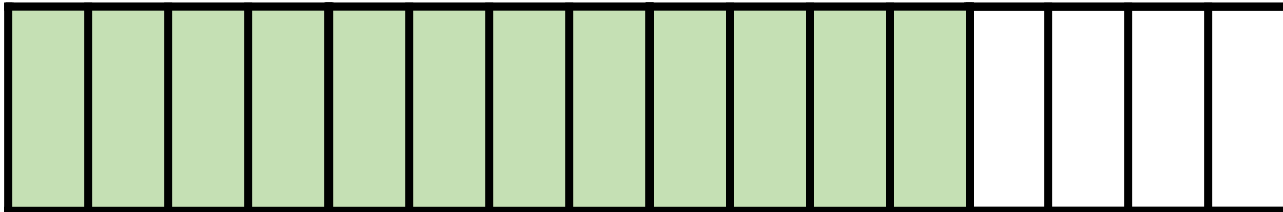
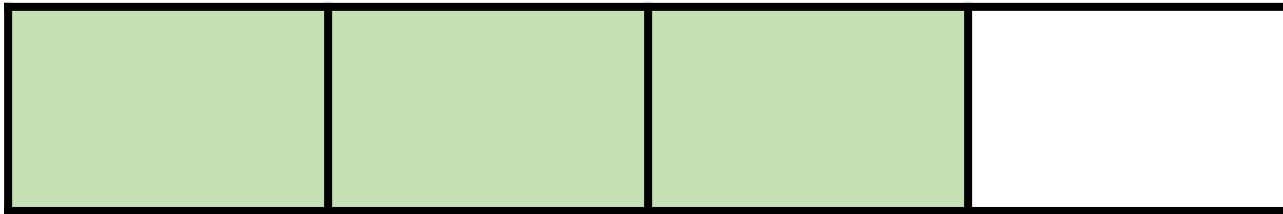
What do you notice?

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

$\times 2 \times 3 \times 5 \times 10$

$$\frac{3}{4} = \frac{12}{\boxed{\phantom{000}}}$$

Diagram illustrating the multiplication of the numerator and denominator of the fraction  $\frac{3}{4}$  by 4 to find an equivalent fraction. The numerator 3 is multiplied by 4 to get 12, and the denominator 4 is multiplied by 4 to get 16. The result is shown as  $\frac{12}{16}$ .



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

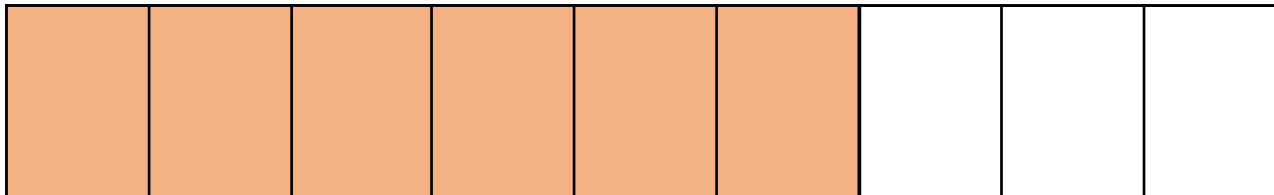
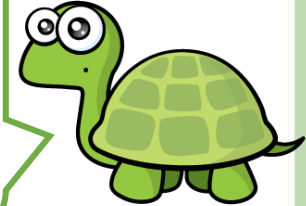


$$\frac{2}{3} = \frac{8}{9}$$

$\times 3$

$\times 3$

I added 6 to both the numerator and denominator.



$$\frac{12}{15} = \frac{40}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{5}$$

$\div 3 \times 10$   
 $\div 8 \times 10$

YOUR TURN

Have a go at the rest of  
questions on the  
worksheet

