

# SIMPLIFY FRACTIONS



**GET READY**



1) Complete the equivalent fraction:

$$\frac{4}{10} = \frac{2}{\boxed{\phantom{00}}}$$

2) Complete the equivalent fraction:

$$\frac{1}{3} = \frac{\boxed{\phantom{00}}}{9}$$

3) Complete the equivalent fraction:

$$\frac{\boxed{\phantom{00}}}{3} = \frac{8}{12}$$

1) Complete the equivalent fraction:

$$\frac{4}{10} = \frac{2}{\boxed{\phantom{0}}}$$

2) Complete the equivalent fraction:

$$\frac{1}{3} = \frac{\boxed{\phantom{0}}}{9}$$

3) Complete the equivalent fraction:

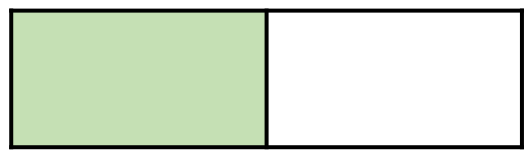
$$\frac{\boxed{\phantom{0}}}{3} = \frac{8}{12}$$

LET'S LEARN



Can you imagine what these fractions look like?

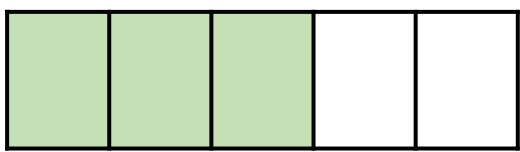
$$\frac{1}{2}$$



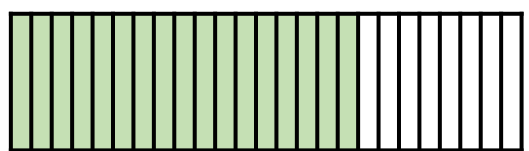
$$\frac{1}{4}$$



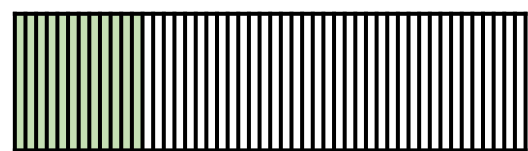
$$\frac{3}{5}$$



$$\frac{17}{25}$$



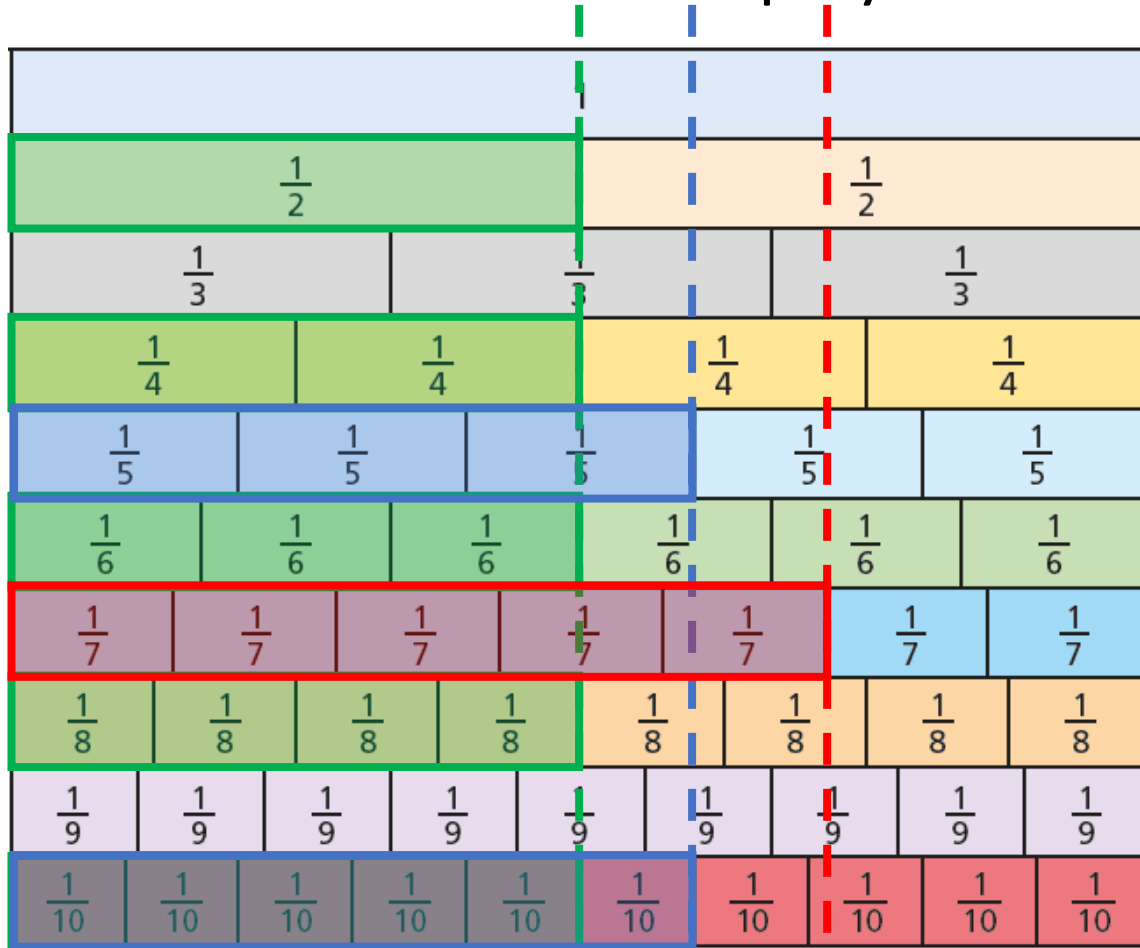
$$\frac{12}{48}$$





Use the fraction wall to simplify

Have a think

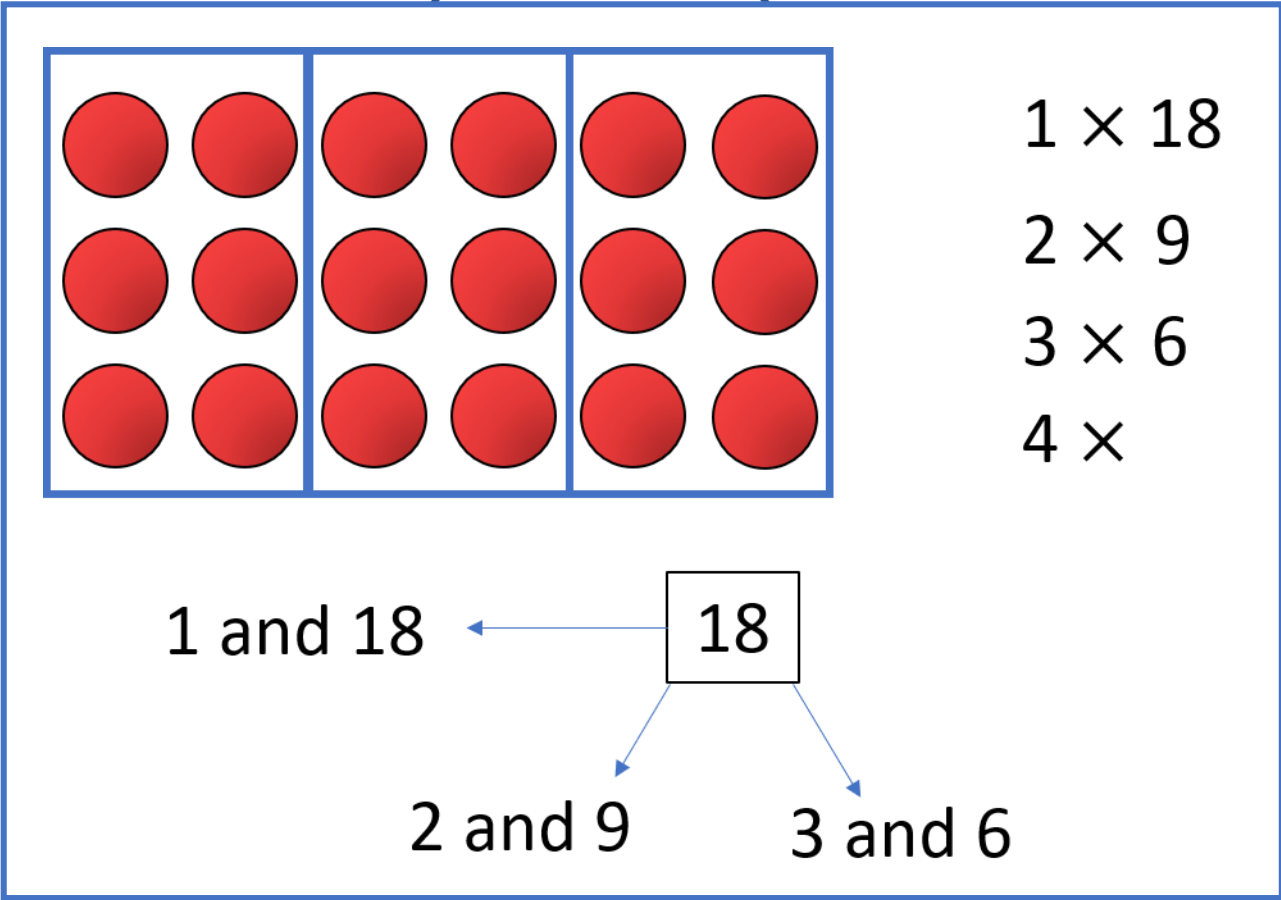


$$\frac{5}{10} = \frac{1}{2}$$

$$\frac{6}{10} = \frac{3}{5}$$

$$\frac{7}{10}$$

$\div 1$



5

7

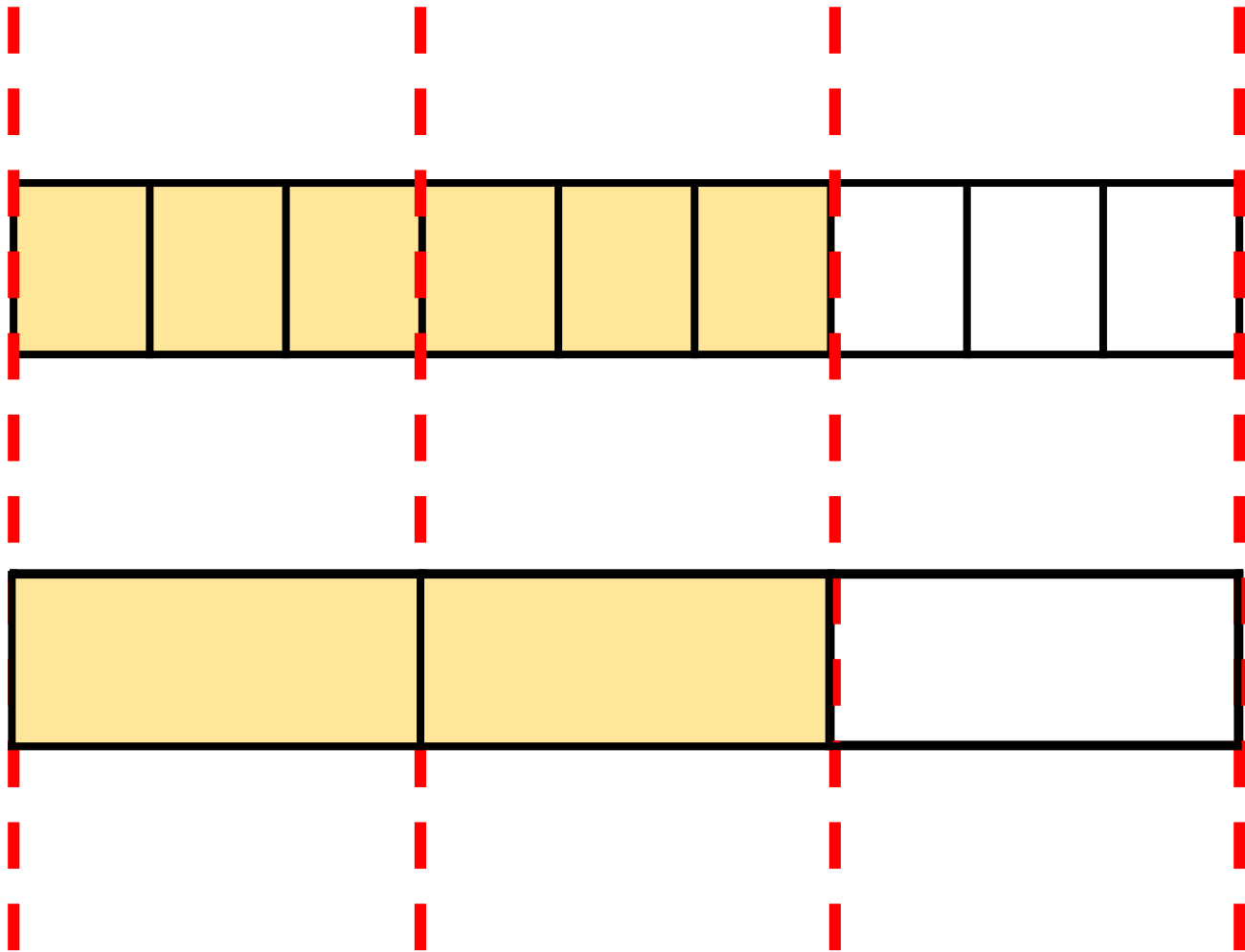
$\frac{5}{7}$  cannot be simplified any further

$\frac{5}{7}$  is in its **simplest form**

**YOUR TURN**

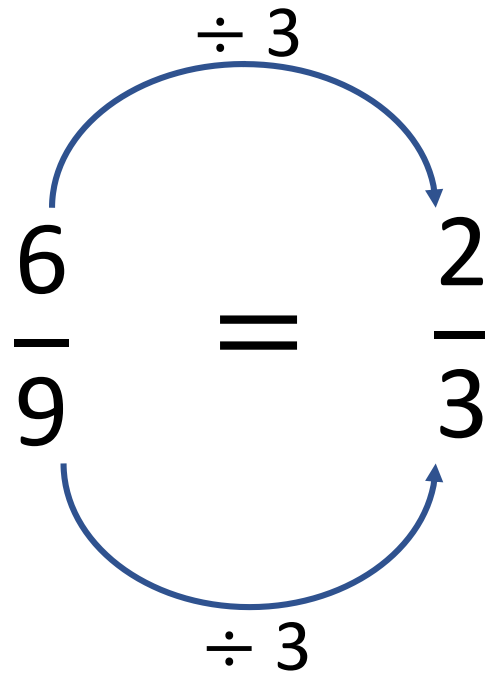
Have a go at questions  
1 - 3 on the worksheet





$$6 \div 9$$

$$2 \div 3$$



Factors of 6: 1, 2, 3, 6

Factors of 9: 1, 3, 9

Have a think

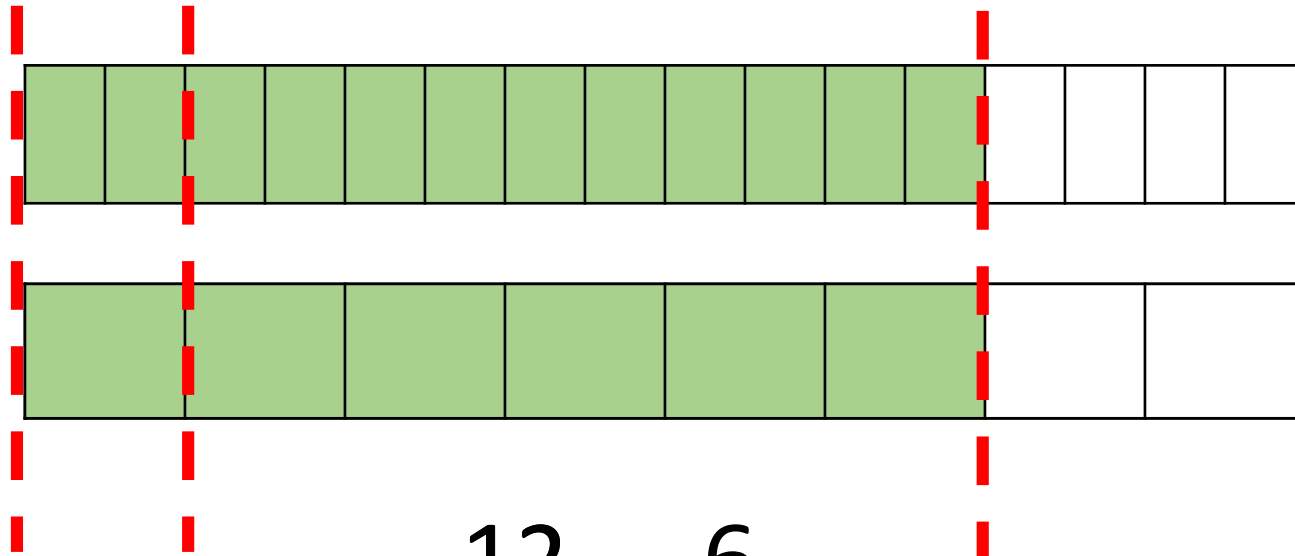


Simplify the fraction using the bar models.



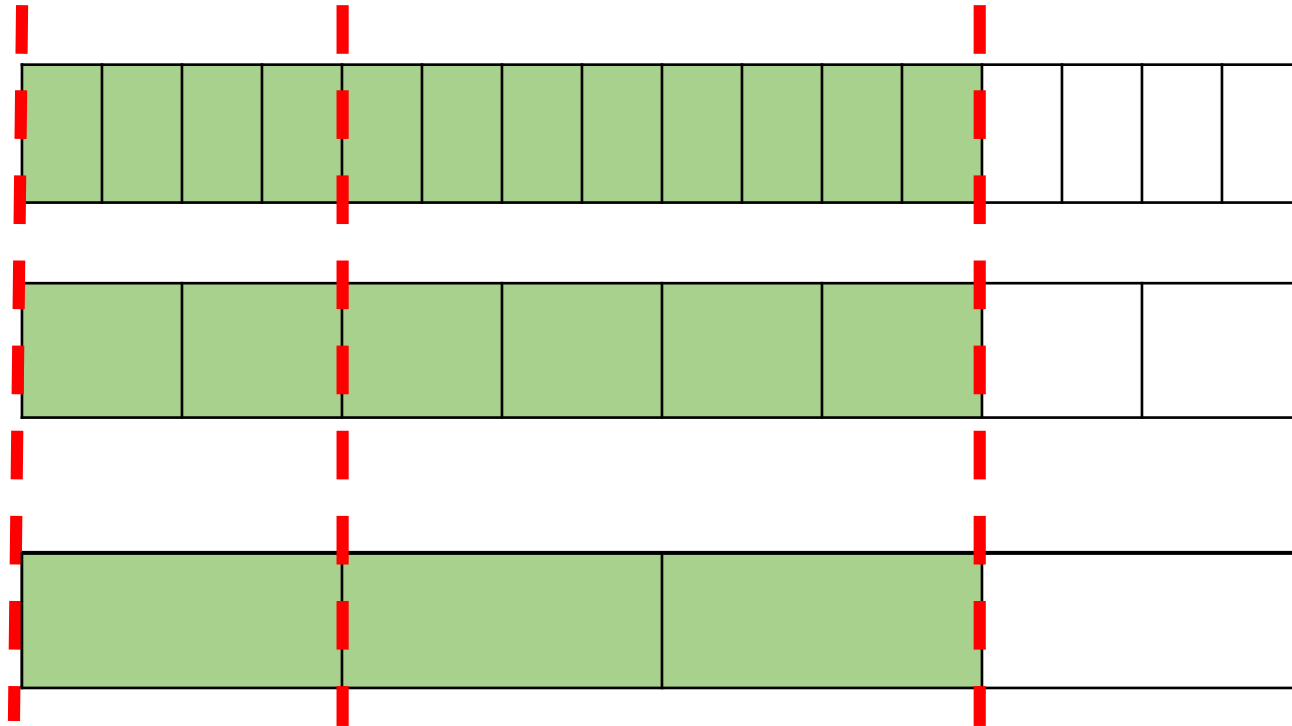
$$\frac{12}{16} = \frac{\quad}{\quad}$$

Simplify the fraction using the bar models.



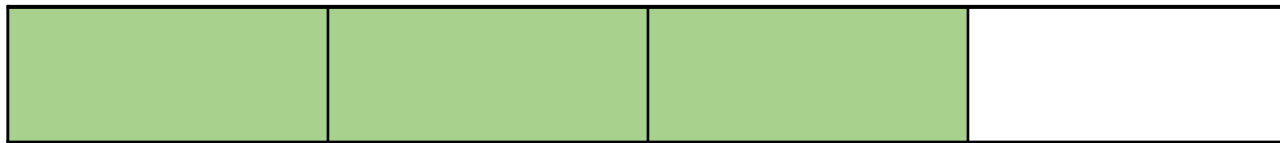
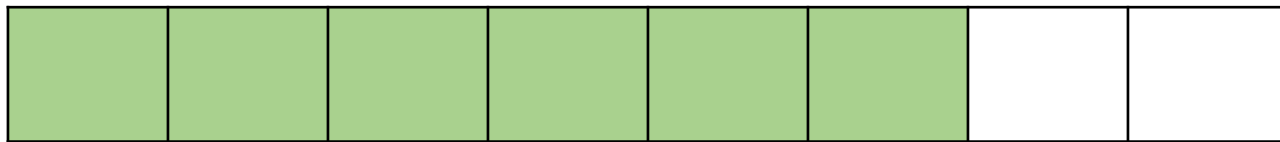
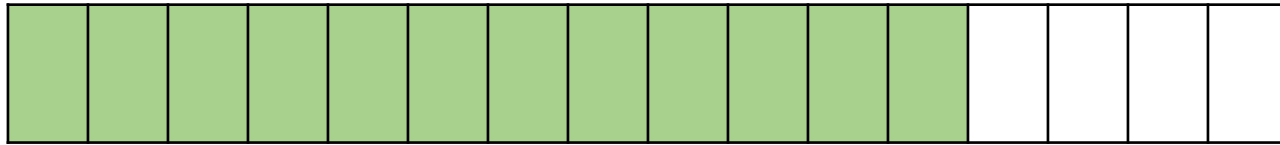
$$\frac{12}{16} = \frac{6}{8}$$

Simplify the fraction using the bar models.



$$\frac{12}{16} = \frac{6}{8} = \frac{3}{4}$$

Simplify the fraction using the bar models.



Factors of 12: 1, 2, 3, 4, 6, 12

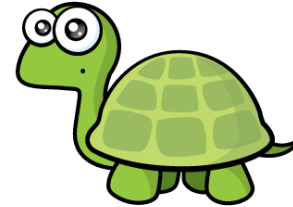
Factors of 16: 1, 2, 4, 8, 16

$$\frac{12}{16} = \frac{3}{4}$$


$\div 4$   
 $\div 4$

Tiny has been asked to simplify

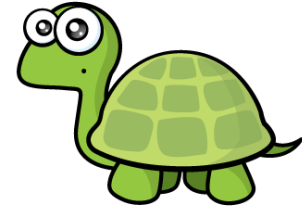
$$\frac{35}{40}$$



$$\frac{35}{40} = \frac{7}{10}$$

Have a think 

Tiny has been asked to simplify



$$\frac{35}{40} \div 5$$

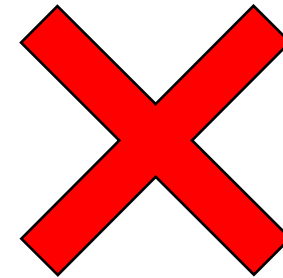
$$\frac{35 \div 5}{40} = \frac{7}{40}$$

$$\frac{7}{40} = \frac{7}{10}$$

$$\frac{7}{40 \div 4} = \frac{7}{10}$$

$$\frac{7}{10} \div 5$$

The diagram shows a sequence of incorrect simplification steps for the fraction 35/40. It starts with 35/40 divided by 5. The first step incorrectly divides the numerator by 5 to get 7/40. The second step incorrectly divides the denominator by 4 to get 7/10. The third step incorrectly divides the denominator by 5 to get 7/10. Blue arrows indicate the flow of these steps. A large red 'X' is placed to the right of the diagram, indicating that the entire process is incorrect.



Factors of 35: 1, 5, 7, 35

Factors of 40: 1, 2, 4, 5, 8, 10, 20, 40

**YOUR TURN**

Have a go at the rest of  
questions on the  
worksheet

