SIMPLIFY FRACTIONS

White Rose Maths

GET READY

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1) Complete the equivalent fraction:

$$\frac{4}{10} = \frac{2}{\square}$$

2) Complete the equivalent fraction:

$$\frac{1}{3} = \frac{\square}{9}$$

3) Complete the equivalent fraction:

$$\frac{\square}{3} = \frac{8}{12}$$

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$$\frac{\square}{3} = \frac{8}{12}$$

LET'S LEARN

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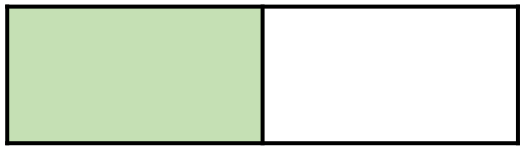
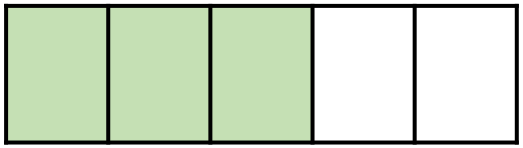
Can you imagine what these fractions look like?

$\frac{1}{2}$

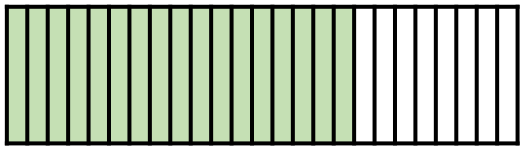


$\frac{1}{4}$

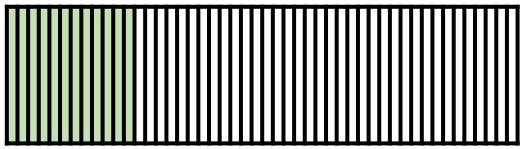
$\frac{3}{5}$

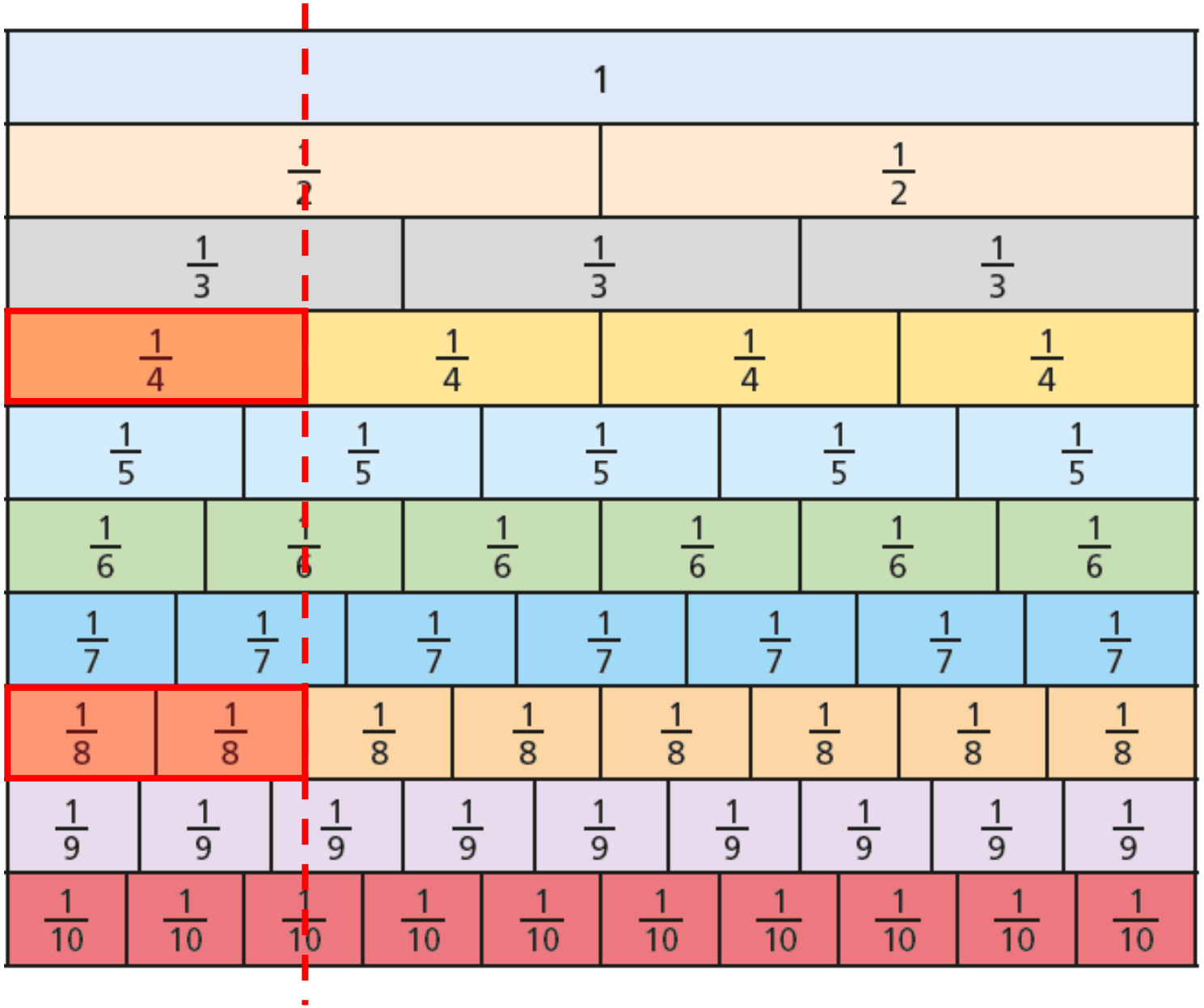


$\frac{17}{25}$



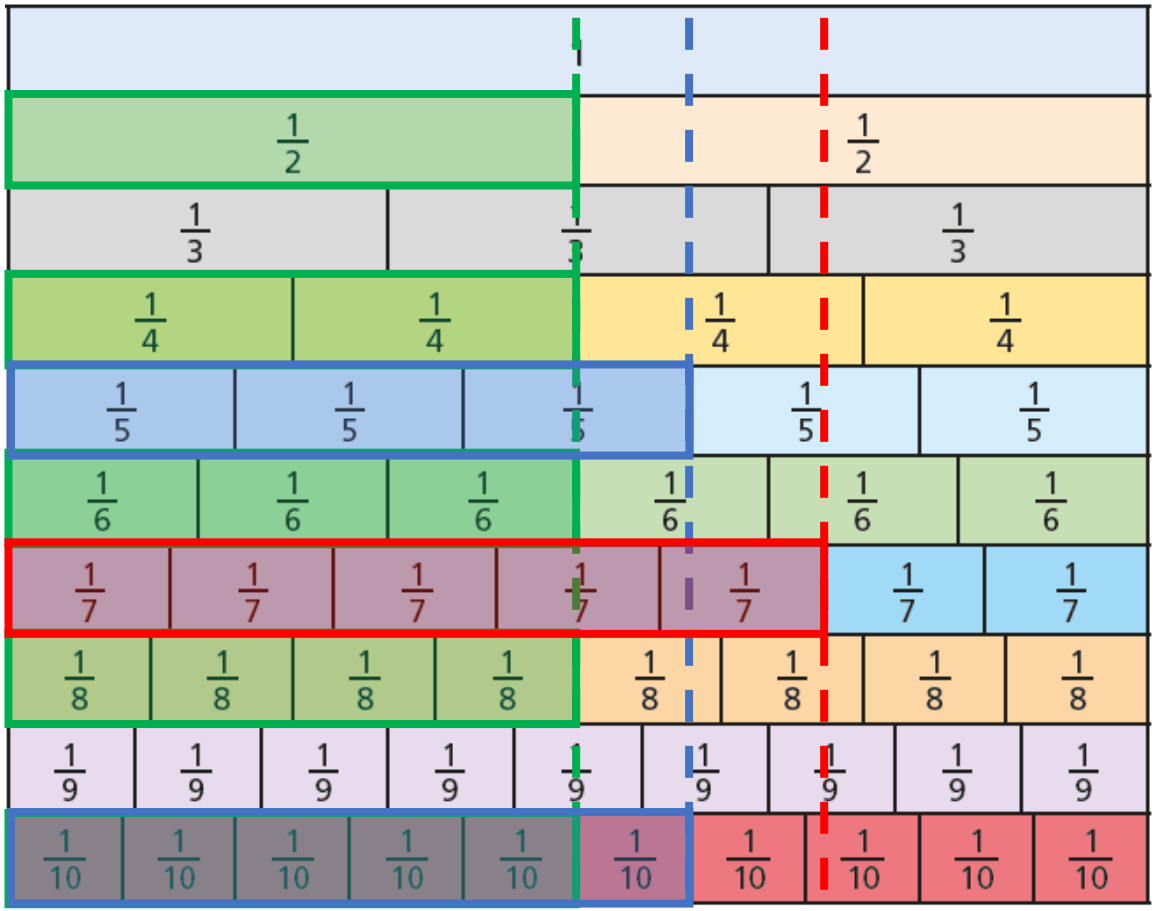
$\frac{12}{48}$



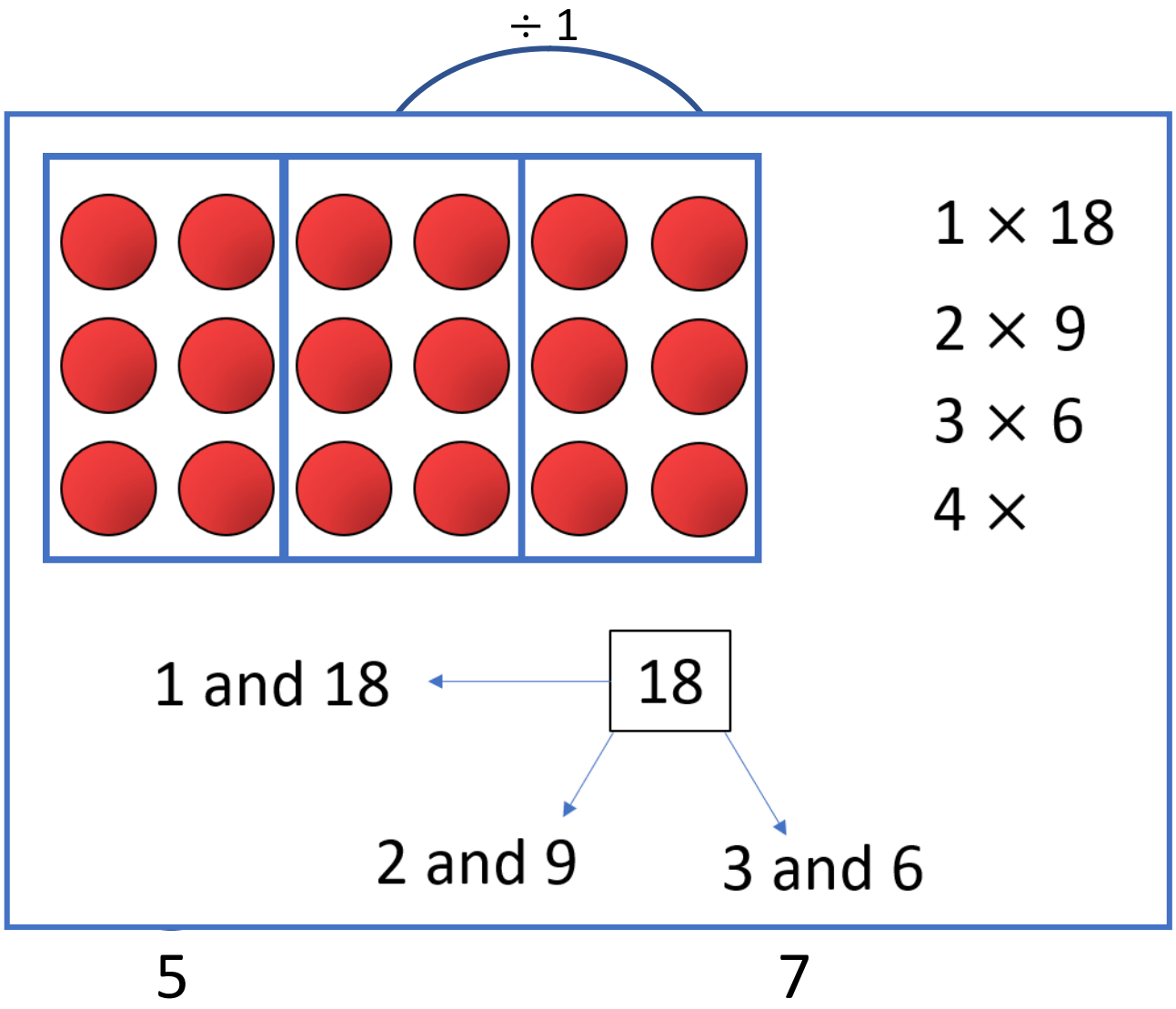

1
1/2 1/2
1/3 1/3 1/3
1/4 1/4 1/4 1/4
1/5 1/5 1/5 1/5 1/5
1/6 1/6 1/6 1/6 1/6 1/6
1/7 1/7 1/7 1/7 1/7 1/7 1/7
1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8
1/9 1/9 1/9 1/9 1/9 1/9 1/9 1/9 1/9
1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10

Use the fraction wall to simplify

Have a think



$\frac{5}{10} = \frac{1}{2}$ $\frac{6}{10} = \frac{3}{5}$ $\frac{5}{7}$


÷ 1
1 × 18
2 × 9
3 × 6
4 ×
1 and 18
18
2 and 9
3 and 6
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

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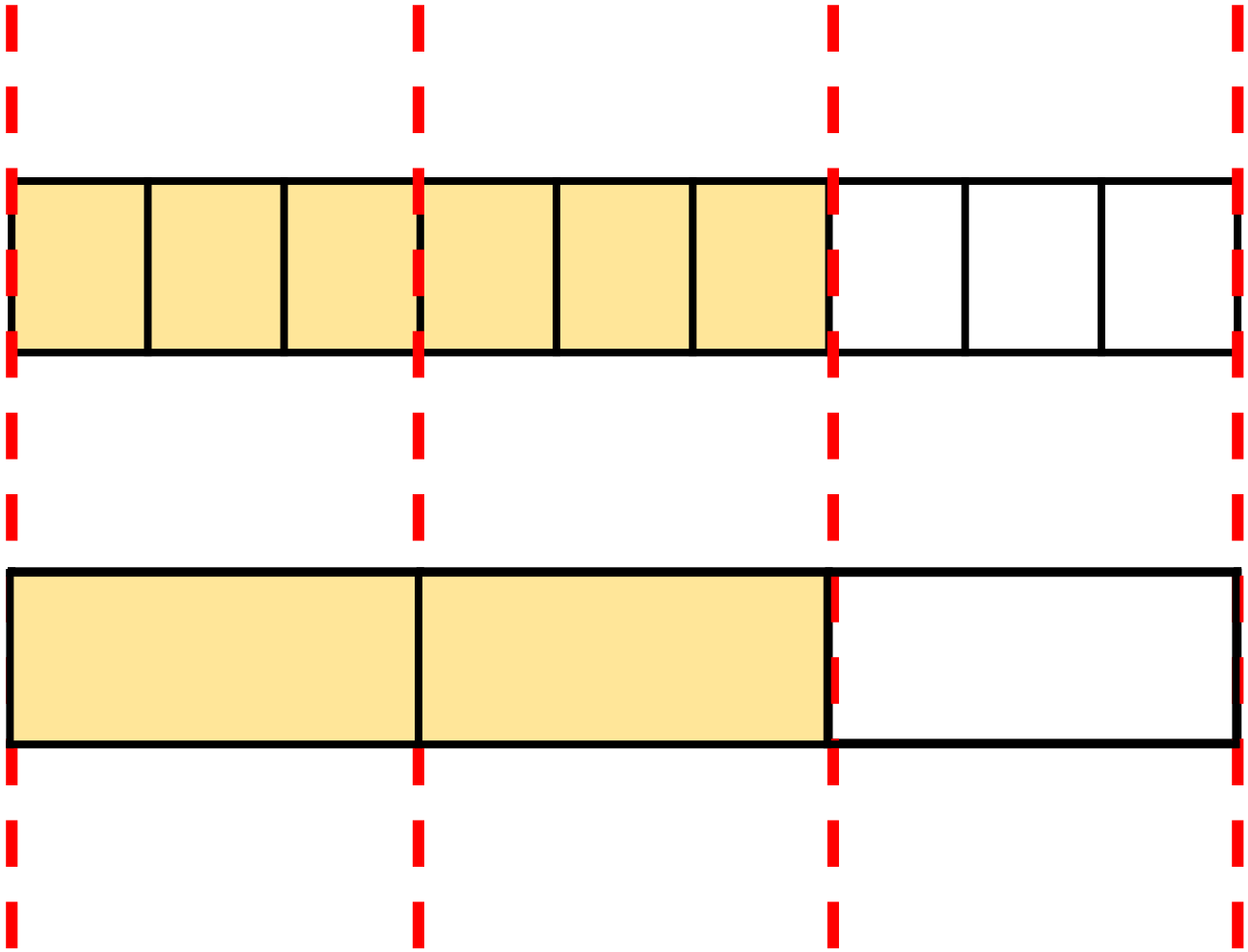
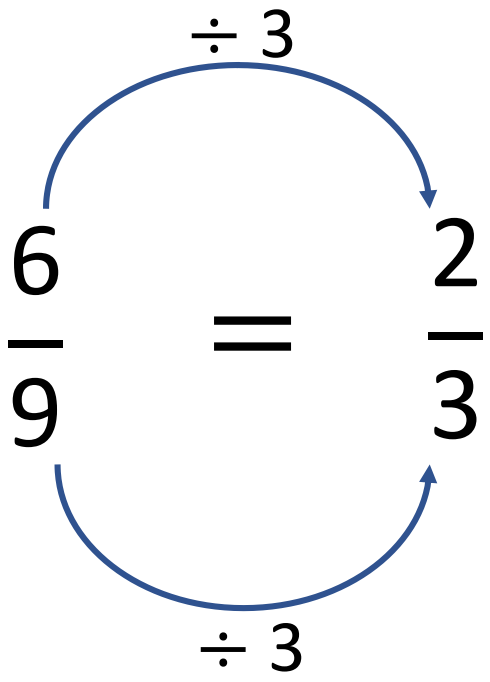


$\frac{6}{9}$

$\frac{2}{3}$



Factors of 6: 1, 2, 3, 6

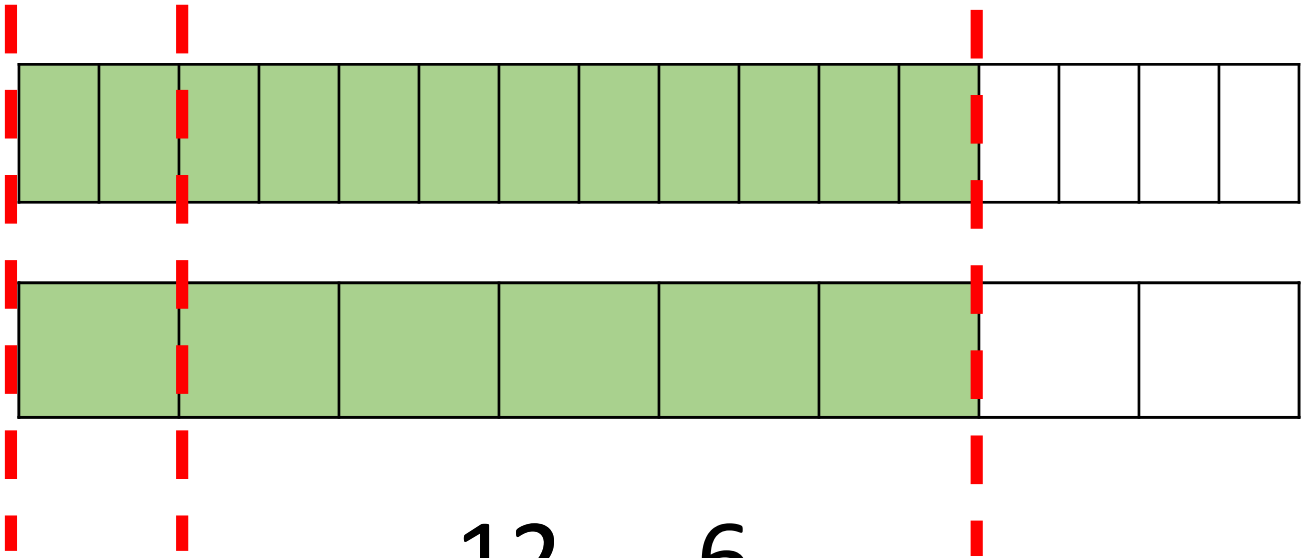
Factors of 9: 1, 3, 9

Have a think

Simplify the fraction using the bar models.

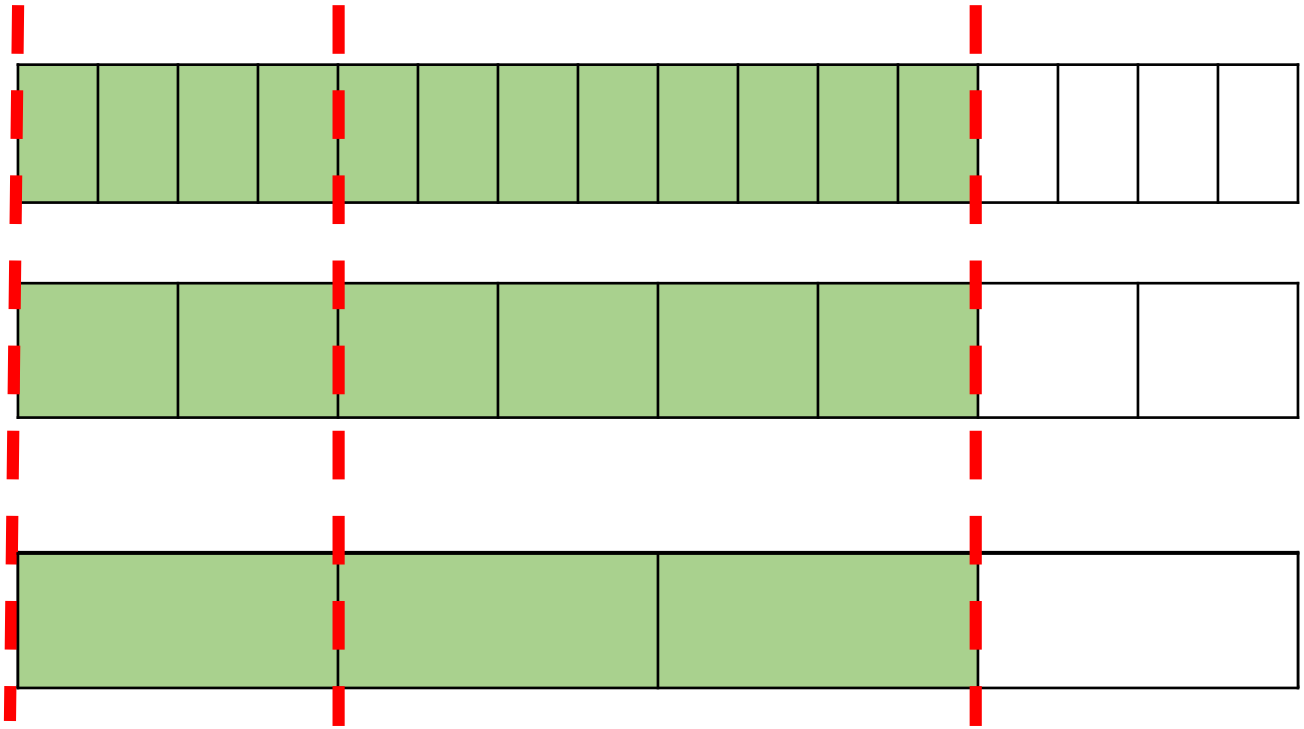
$$\frac{12}{16} = \frac{\quad}{\quad}$$

Simplify the fraction using the bar models.



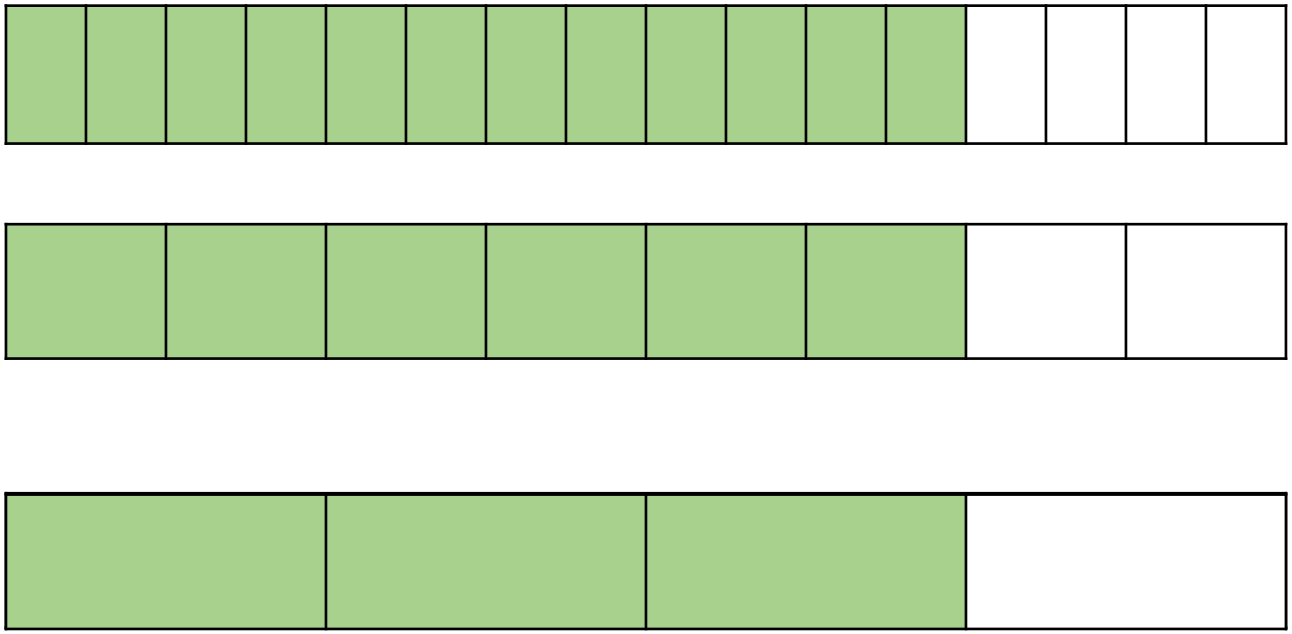
$$\frac{12}{16} = \frac{6}{8}$$

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

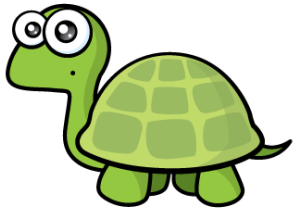
$$\frac{12}{16} = \frac{3}{4}$$

÷ 4

÷ 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

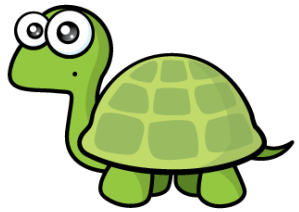
$$\frac{35}{40}$$

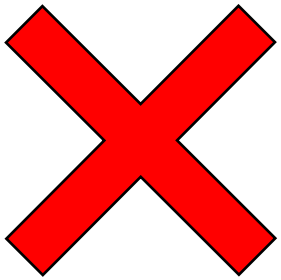
÷ 5

$$\frac{35 \div 5}{40} = \frac{7}{40 \div 4} = \frac{7}{8}$$

÷ 4

÷ 5





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

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