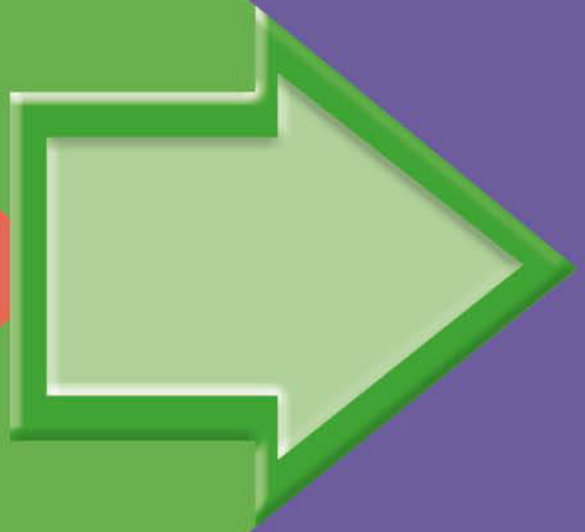
IMPROPER FRACTIONS TO MIXED NUMBERS

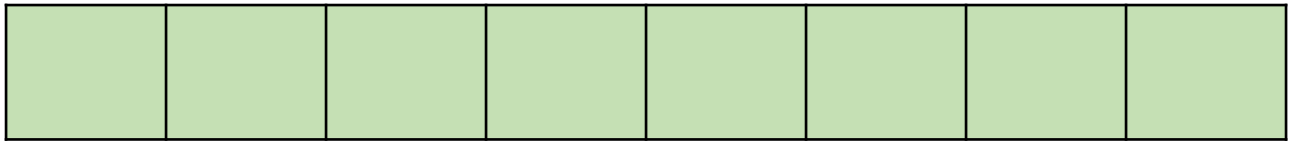


White Rose Maths

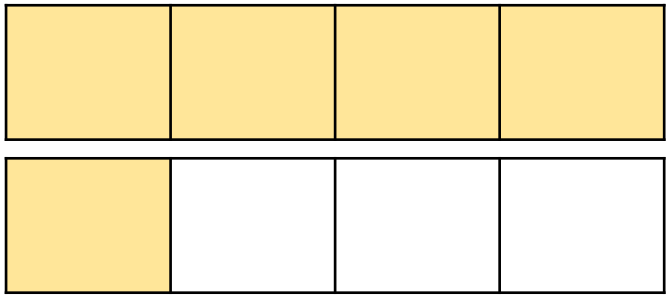
GET READY

1) What fraction of the bar is shaded blue?

2) What fraction of the bar is shaded green?



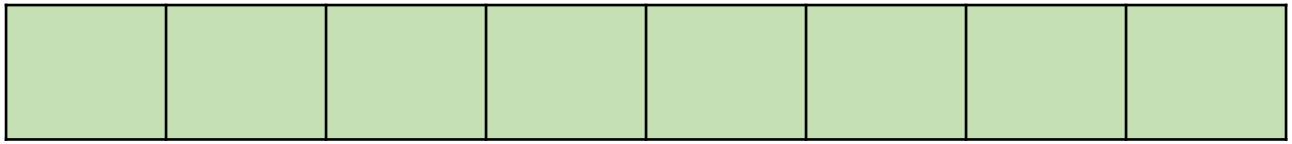
3) How many parts are yellow?



1) What fraction of the bar is shaded blue?

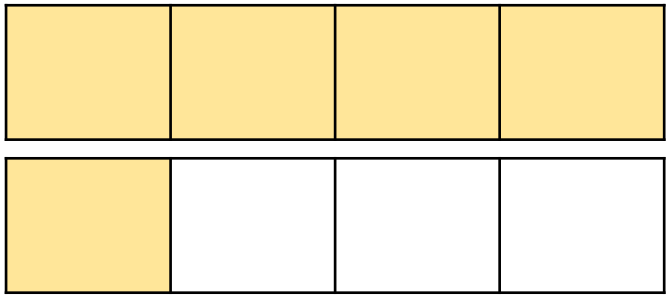
$\frac{3}{5}$

2) What fraction of the bar is shaded green?



$\frac{8}{8}$

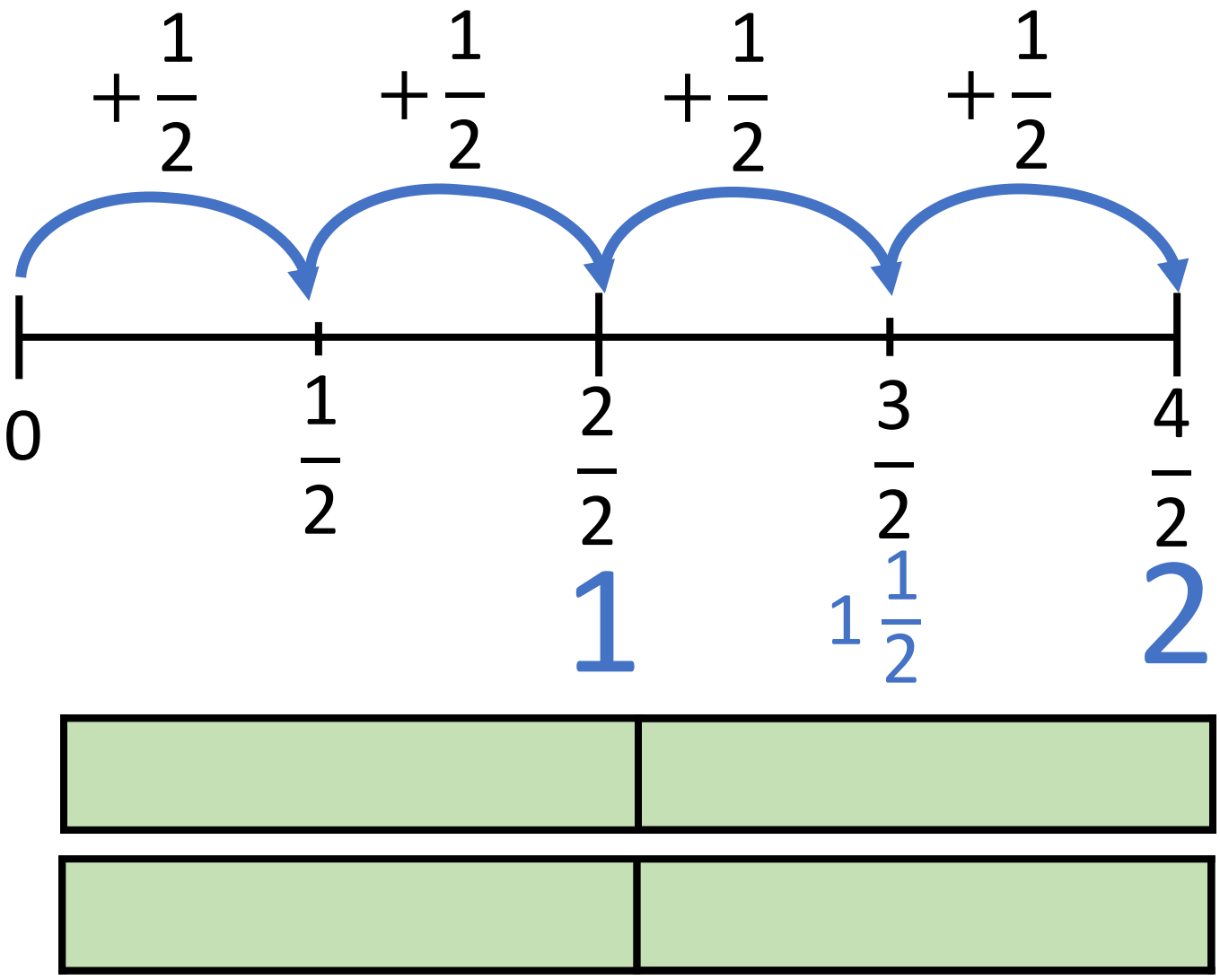
3) How many parts are yellow?

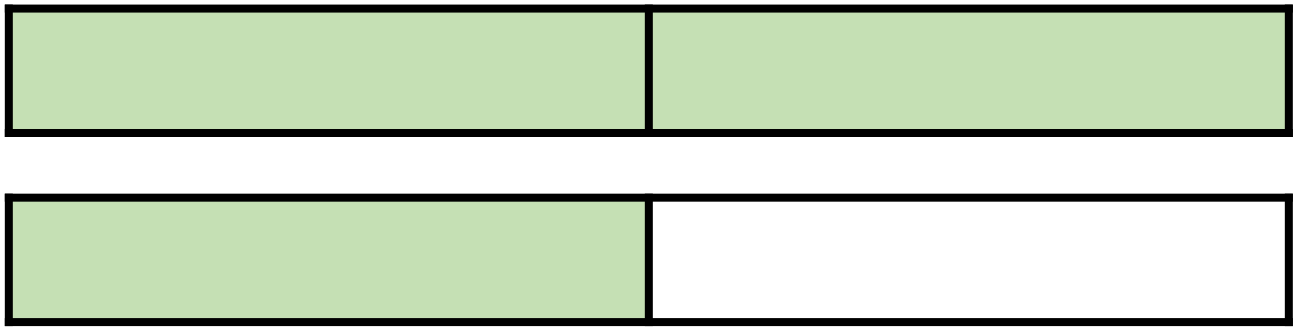


5 parts

LET'S LEARN

White Rose Maths


+ 1/2
+ 1/2
+ 1/2
+ 1/2
0
1/2
2/2
3/2
4/2
1
1 1/2
2



$\frac{3}{2}$

This is an **improper fraction**.

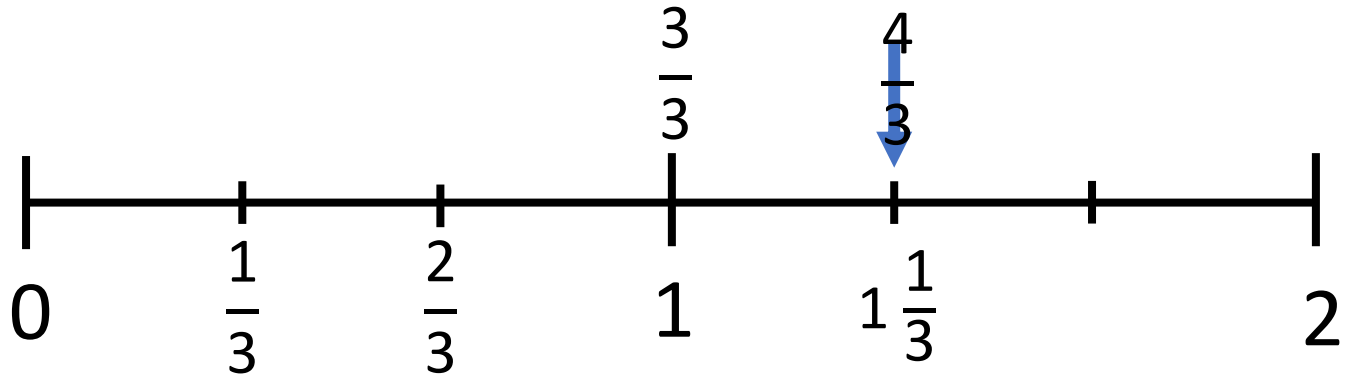
A improper fraction is where the **numerator** is greater than the **denominator**.

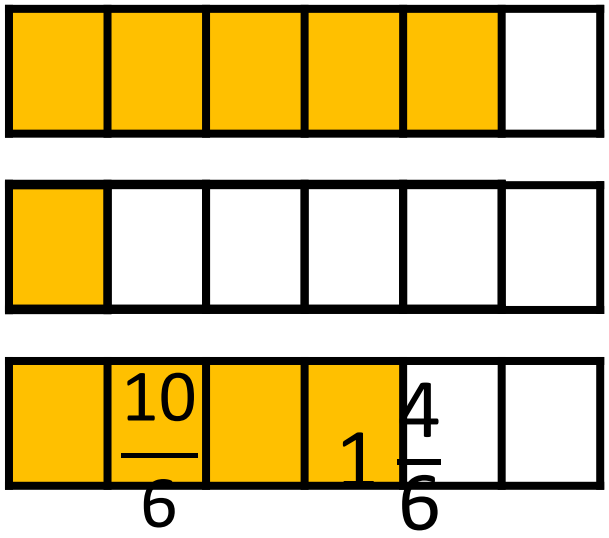
$1\frac{1}{2}$

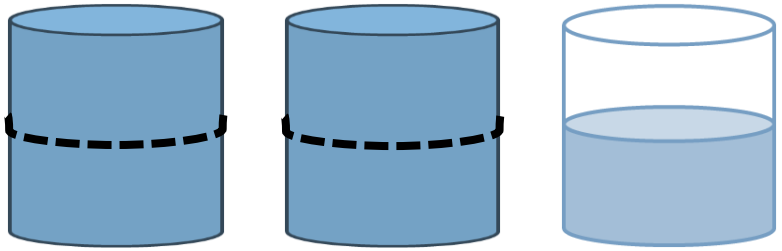
This is a **mixed number.**

It is a number with a whole and a fraction.

How do the representations show **mixed numbers** and **improper fractions?**



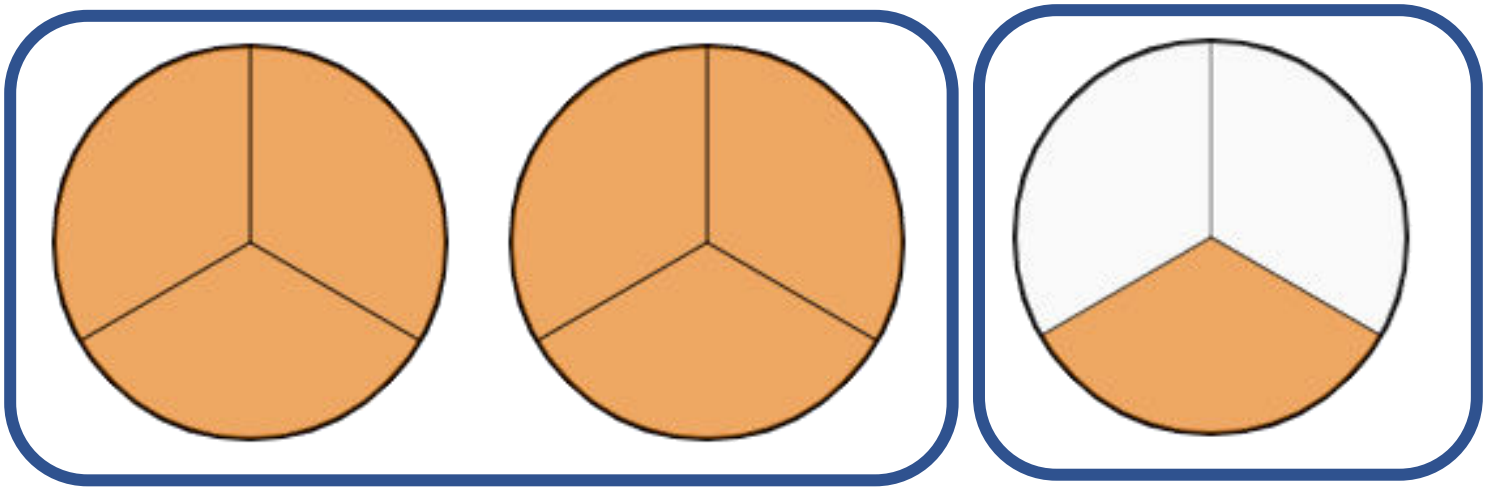




$2\frac{1}{2}$ $\frac{5}{2}$

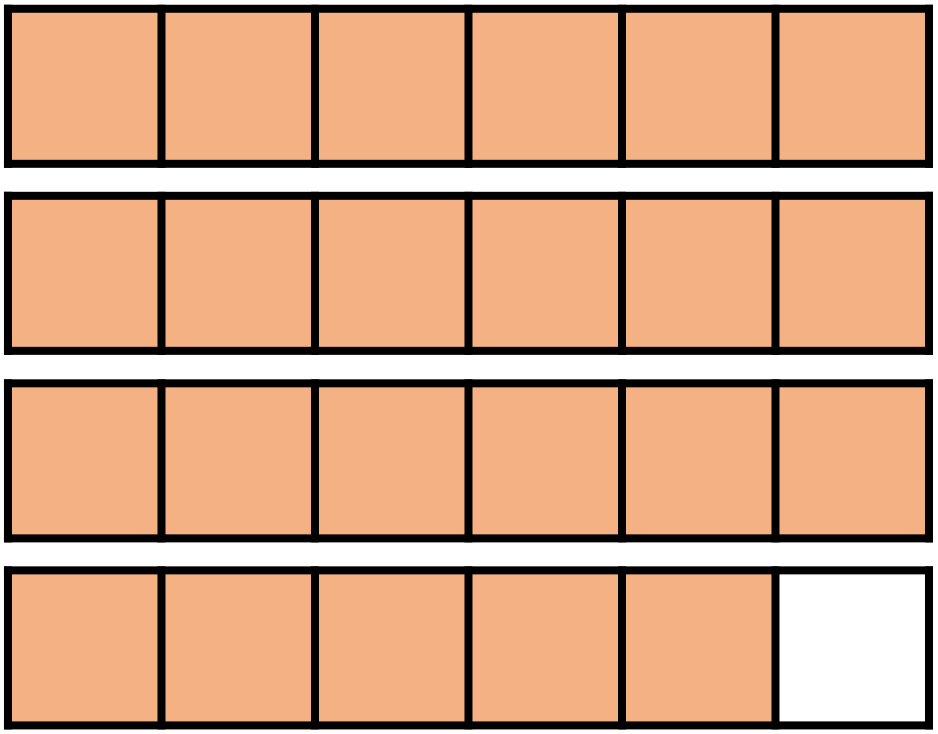
Have a think

Convert the improper fraction to a mixed number



$$\frac{7}{3} = 2\frac{1}{3}$$

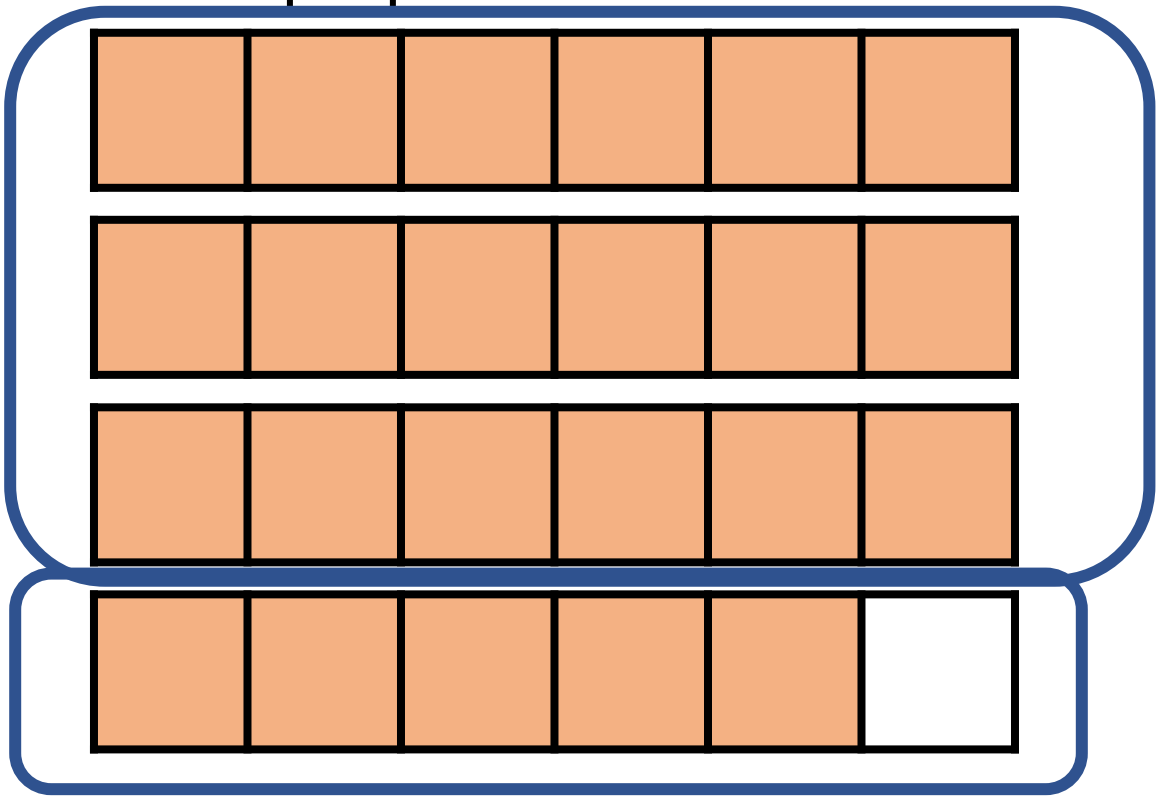
Convert the improper fraction to a mixed number



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

Have a think

Convert the improper fraction to a mixed number



$$\frac{23}{6} = \boxed{3\frac{5}{6}}$$

YOUR TURN

Have a go at questions 1 and 2 on the worksheet

White Rose Maths

Convert the improper fractions to mixed numbers.

$$\frac{32}{7} =$$

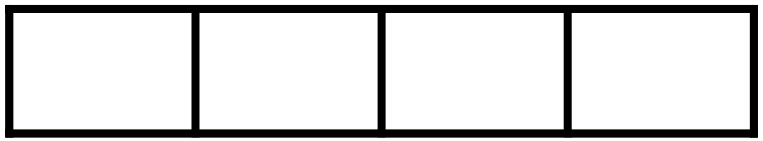
$$32 \div 7 = 4 \text{ r } 4$$

$$\frac{4}{7}$$

Convert the improper fractions to mixed numbers.

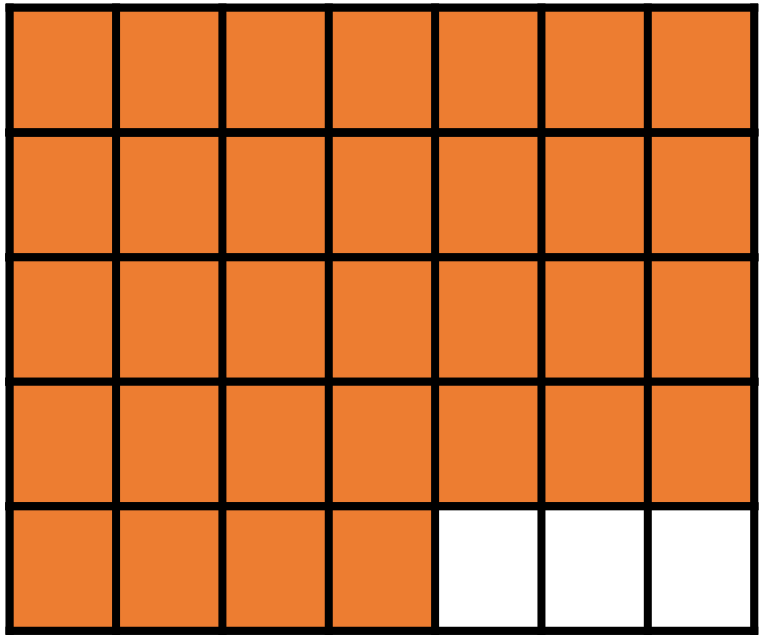
$\frac{1}{4}$ means $1 \div 4$

so $\frac{32}{7}$ means $32 \div 7$



$\frac{4}{7}$

$32 \div 7 = 4$ r 4



Have a think

Convert the improper fractions to mixed numbers

$\frac{107}{10} = 10\frac{7}{10}$

$\frac{22}{3} = 7\frac{1}{3}$

Find the value of  and 

$$\frac{25}{\bigstar} = 8\frac{\square}{\bigstar}$$

Have a think

Find the value of ★ and ▭

$$\frac{25}{\bigstar} = 8\frac{\square}{\bigstar}$$

$25 \div \bigstar = 8$ r ▭

$25 \div 8 = \bigstar$ r ▭

$12 \div 3 = 4$

$12 \div 4 = 3$

Find the value of ★ and ▭

★ = 3

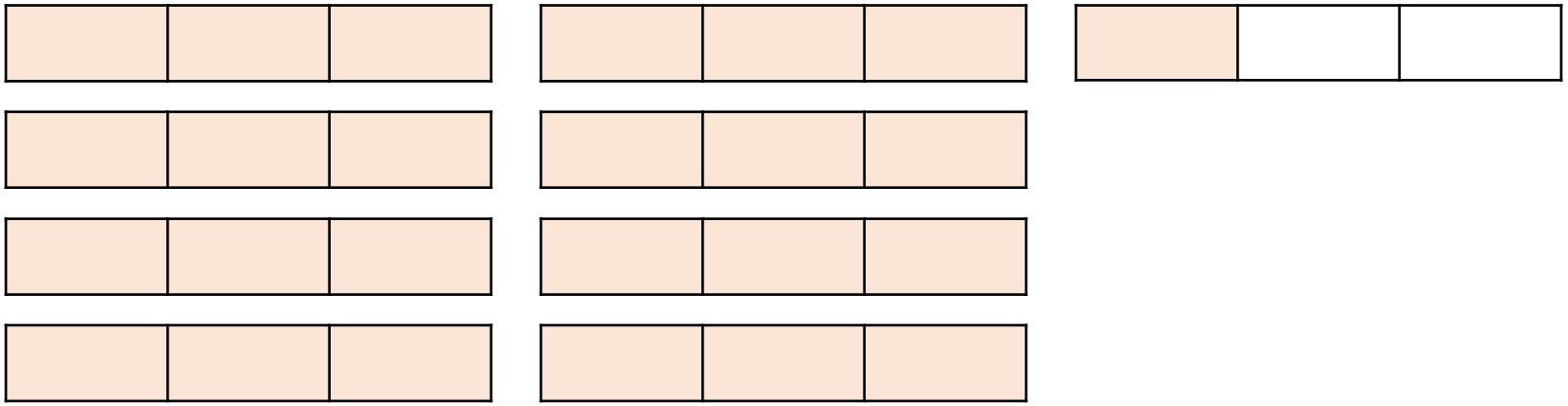
▭ = 1

$25 \div ★ = 8 \text{ r } ▭$

$25 \div 8 = ★ \text{ r } ▭$

$25 \div 8 = 3 \text{ r } 1$

$\frac{25}{3} = 8\frac{1}{3}$



YOUR TURN

Have a go at the rest of the questions on the worksheet

White Rose Maths