28.1.21 Fractions

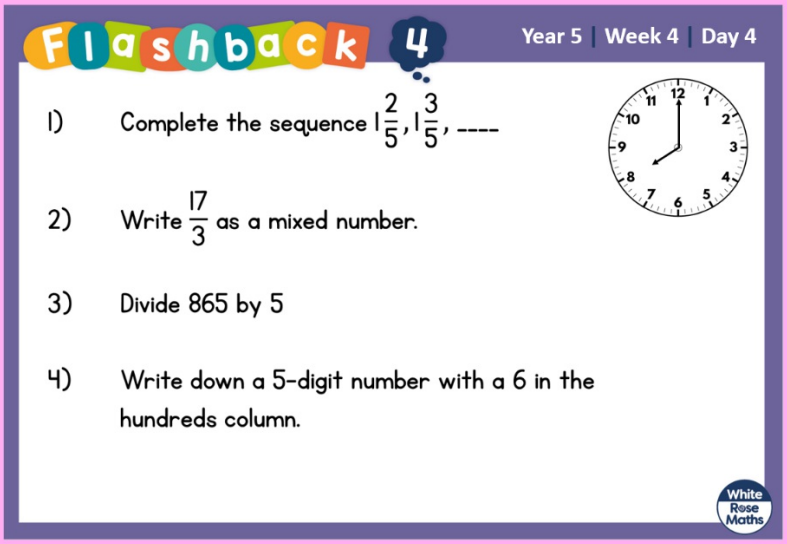
Learning Objective:
We are learning to convert improper fractions to mixed numbers.

I will be successful if:

- I can explain how many equal parts make a whole.
- I can use the terms numerator, denominator, unit fractions and non-unit fractions.
- I can complete bar models to help convert fractions.

Key Vocabulary

fractions as part of a whole
equal
equivalent
improper fractions
mixed number fractions
representations
shapes
quantities
numerator
denominator
non-unit and unit fractions



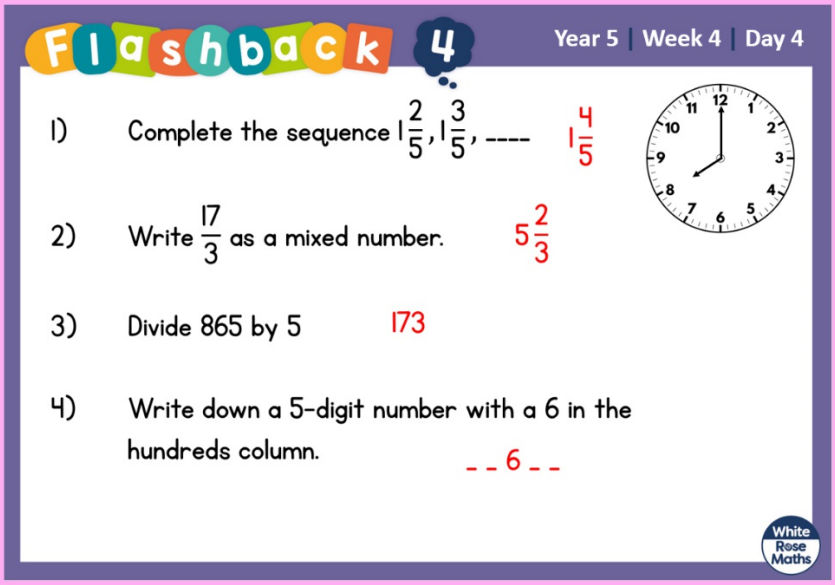
Challenge- round these numbers to the nearest 100

5) 12,468

6) 7079

7) 1099

8) 174.5



Challenge- round these numbers to the nearest 100

5) 12,500

6) 7100

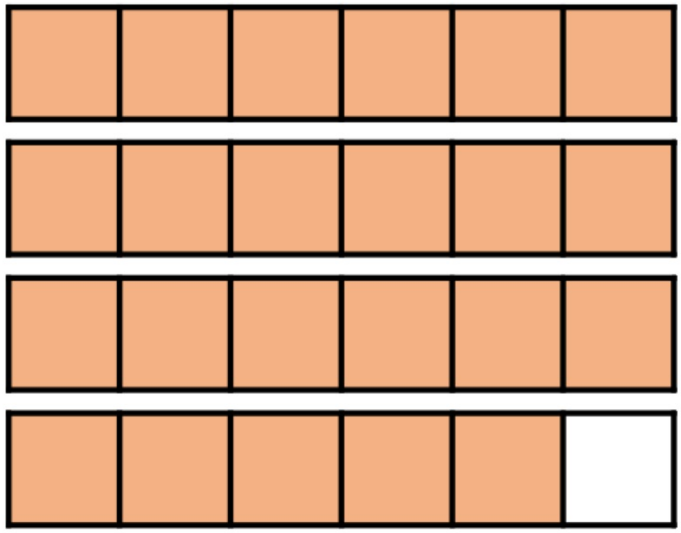
7) 1100

8) 200

An improper fraction is a fraction where the numerator is greater than the denominator.

A mixed number is a number consisting of an integer and a proper fraction.

Convert the improper fraction to a mixed number



6+6+6+5 = 23

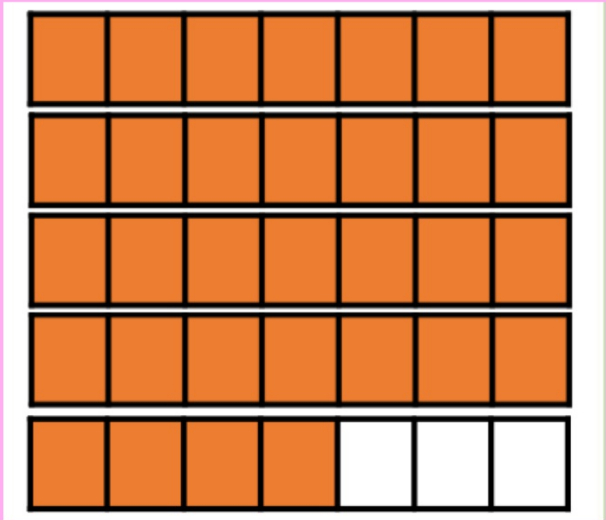
$\frac{23}{6}$ = 3 wholes + $\frac{5}{6}$

You can use your division facts to help you do this as well.

Convert the improper fractions to mixed numbers.

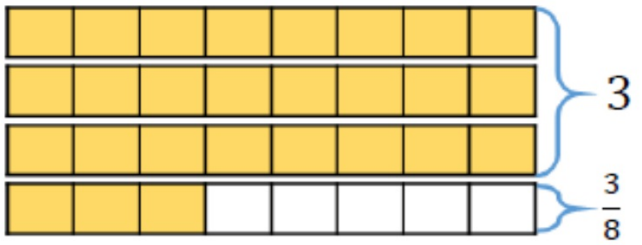
$$\frac{32}{7} =$$

$32 \div 7 = 4$ r 4 $\rightarrow \frac{4}{7}$



Tommy converts the improper fraction $\frac{27}{8}$ into a mixed number using bar models.

$\frac{27}{8}$



$3\frac{3}{8}$

Use Tommy's method to convert $\frac{25}{8}$, $\frac{27}{6}$, $\frac{18}{7}$ and $\frac{32}{4}$

How would you work this out?

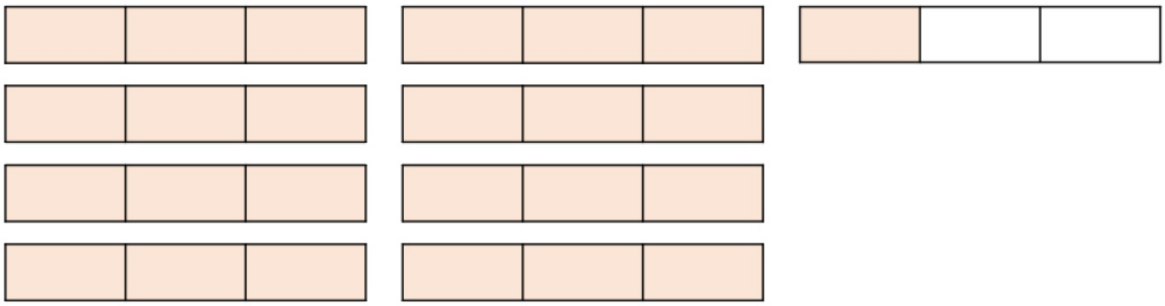
Find the value of ★ and ▭

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

Answer

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

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



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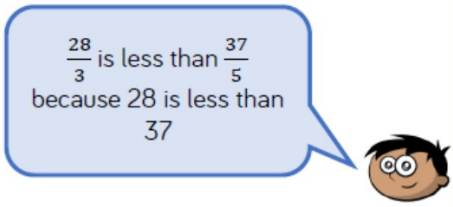
Have a go at the questions on the attached worksheet.

Reasoning challenges

Amir says,



Do you agree?
Explain why.

Spot the mistake

- $\frac{27}{5} = 5\frac{1}{5}$
- $\frac{27}{3} = 8$
- $\frac{27}{4} = 5\frac{7}{4}$
- $\frac{27}{10} = 20\frac{7}{10}$

What mistakes have been made?

Can you find the correct answers?

Different ways

Fill in the gaps. Find different ways.