

26.1.21

## Fractions

Learning Objective:

We are learning to identify equivalent fractions.

I will be successful if:

- I can identify fractions that are the same.
- I can use the terms numerator, denominator, unit fractions and non-unit fractions.
- I can reason about fractions and prove if they are equivalent or not.

## Key Vocabulary

fractions as part of a whole

equal

equivalent

representations

shapes

quantities

numerator

denominator

non-unit and unit fractions

# Flashback 4

Year 5 | Week 4 | Day 2

1) Complete  $2\frac{3}{4} = \frac{\square}{4}$

2) Write a fraction equivalent to  $\frac{2}{3}$

3) Work out  $64 \times 23$

4) What is the value of the 4 in the number 243,157?



White  
Rose  
Maths

## Challenge

5)  $4 \overline{) 3947}$

7)  $7 \overline{) 5941}$

6)  $6 \overline{) 3820}$

8)  $9 \overline{) 3423}$

# Flashback 4

Year 5 | Week 4 | Day 2



1) Complete  $2\frac{3}{4} = \frac{\square}{4}$      ||

2) Write a fraction equivalent to  $\frac{2}{3}$       $\frac{4}{6}, \frac{6}{9}, \frac{200}{300}$

3) Work out  $64 \times 23$      1,472

4) What is the value of the 4 in the number 243,157?

Forty thousand

White  
Rose  
Maths

## Challenge

5)  $4 \overline{) 3947}$   
0986r3

7)  $7 \overline{) 5941}$   
0848r5

6)  $6 \overline{) 3820}$   
0636r4

8)  $9 \overline{) 3423}$   
0380r3

## Discussion

Use these words to explain what you learnt about fractions yesterday.

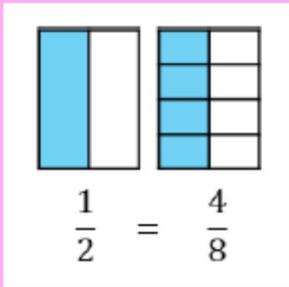
numerator

denominator

equal

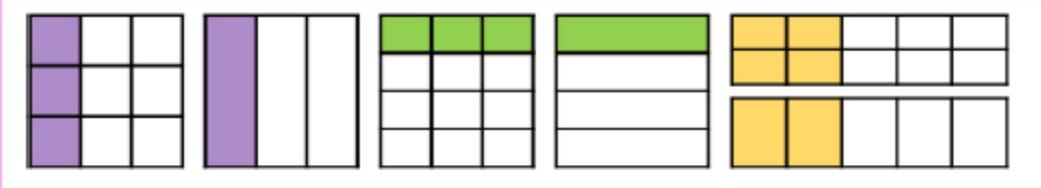
unit fractions

non- unit fractions

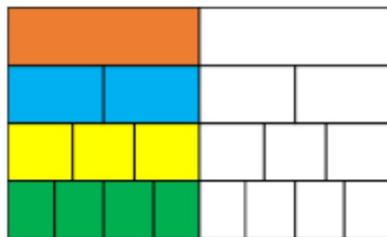


An equivalent fraction is when the amount is equal but it is divided up in different ways.

Now write down the equivalent fractions for these 3 representations below.

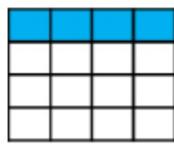
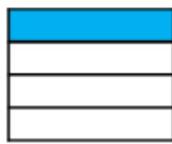


How many fractions that are equivalent to one half can you see on the fraction wall?



Draw extra rows to show other equivalent fractions.

Eva uses the models and her multiplication and division skills to find equivalent fractions.



$$\frac{1}{4} = \frac{4}{16}$$

↻  $\times 4$  ↻  
↻  $\times 4$  ↻

Use this method to find equivalent fractions to  $\frac{2}{4}$ ,  $\frac{3}{4}$  and  $\frac{4}{4}$  where the denominator is 16

Eva uses the same approach to find equivalent fractions for these fractions. How will her method change?

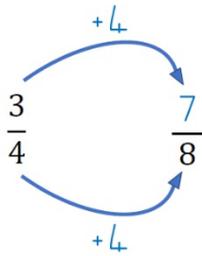
$$\frac{4}{12} = \frac{\square}{3}$$

$$\frac{6}{12} = \frac{\square}{4}$$

$$\frac{6}{12} = \frac{\square}{2}$$

## Discussion

Explain the mistake



Can you work out what the correct equivalent fraction should be?

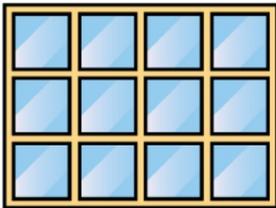
You can draw a pictorial representation to show this, if it helps.

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*Have a go at the questions on the sheet attached.*

## Reasoning challenges

How many equivalent fractions can you see in this picture?



Eva says,



I know that  $\frac{3}{4}$  is equivalent to  $\frac{3}{8}$  because the numerators are the same.

Is Eva correct?  
Explain why.

Ron thinks you can only simplify even numbered fractions because you keep on halving the numerator and denominator until you get an odd number.

Do you agree?  
Explain your answer.

Ron has two strips of the same sized paper.  
He folds the strips into different sized fractions.  
He shades in three equal parts on one strip and six equal parts on the other strip.  
The shaded areas are equal.

What fractions could he have folded his strips into?

Rosie says,



To find equivalent fractions, whatever you do to the numerator, you do to the denominator.

Using her method, here are the equivalent fractions Rosie has found for  $\frac{4}{8}$

$$\frac{4}{8} = \frac{8}{16} \quad \frac{4}{8} = \frac{6}{10}$$

$$\frac{4}{8} = \frac{2}{4} \quad \frac{4}{8} = \frac{1}{5}$$

Are all Rosie's fractions equivalent?  
Does Rosie's method work?  
Explain your reasons.

Here are some fraction cards.  
All of the fractions are equivalent.

$$\frac{4}{A}$$

$$\frac{B}{C}$$

$$\frac{20}{50}$$

$A + B = 16$   
Calculate the value of C.