5.2.2021 Quick Maths

A

○ 18 + _____ = 150
○ 29 x 6 =
○ 106 ÷ 2 =
○ 6,___,___, 66, 86,___.
○ 1/9 = of 45

B

○ 7215 + 3896 =
○ 147 x 3 =
○ 112 ÷ 8 =
○ 9,___,___,___, 109 ,___.
○ 1/12 of 84 =

Challenge
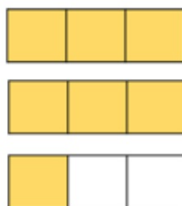
(1) (8) (4) (7)

My number is odd.
The difference between the Thousands and the Tens digits is 3.
My number rounds up to the nearest thousand.
What is my number? Are there any alternatives?

Flashback 4 Year 4 | Week 5 | Day 5

1) Complete the sentence.

There are _____ thirds altogether.

2) Draw a shape with an area of 8 squares.

3) Multiply 124 by 4

4) What is the value of the digit 5 in 7,567?

White Rose Maths
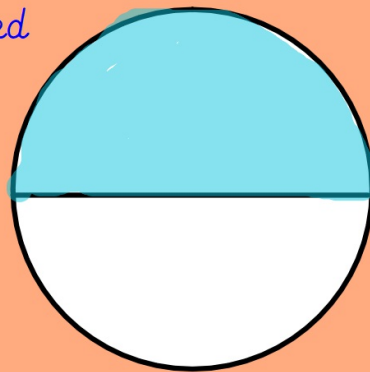
What we covered last lesson...

Equivalent fractions are fractions with different numerators and denominators that represent the same value.

In 30 seconds, how many equivalent fractions can you list down?

Find the value of the shaded part of each shape.

What is the value?

Are they equivalent fractions? Explain your answer.

EQUIVALENT FRACTIONS 3

Learning Objective:
Today I am learning to
- calculate equivalent fractions using representations
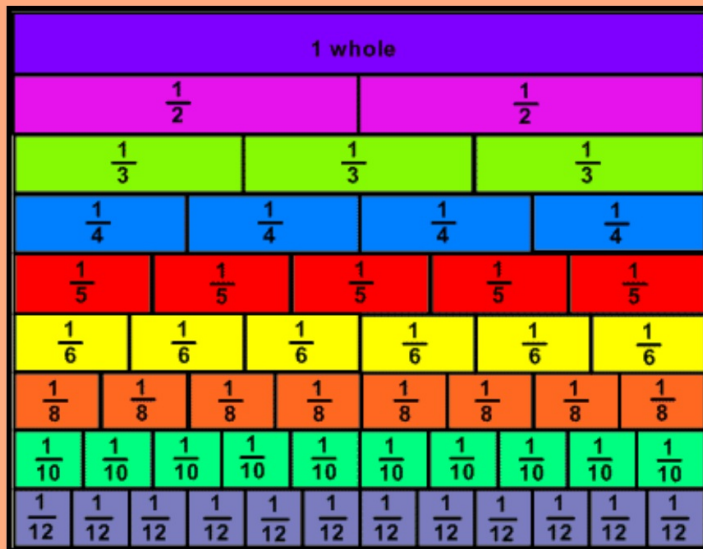- calculate equivalent fractions without using representations

Key Vocabulary
- numerator   - non-unit
- denominator   - multiply
- fraction   - divide
- unit   - equivalent

Success Criteria
I will be successful if I can
- find equivalent fractions
- develop my investigation and reasoning skills.

Equivalent Fractions

1 whole											
$\frac{1}{2}$						$\frac{1}{2}$					
$\frac{1}{3}$				$\frac{1}{3}$				$\frac{1}{3}$			
$\frac{1}{4}$			$\frac{1}{4}$			$\frac{1}{4}$			$\frac{1}{4}$		
$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$			
$\frac{1}{6}$		$\frac{1}{6}$		$\frac{1}{6}$		$\frac{1}{6}$		$\frac{1}{6}$		$\frac{1}{6}$	
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$				
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$		
$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$

$$\frac{1}{2} = \frac{2}{4}$$

Can you see any more equivalent fractions?

What pattern do you notice?

What is the relationship between the denominator and the value of the fraction?

Top Marks Maths – Fractions 🌐

Equivalent Fractions

$$x4$$

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

$$x4$$

As the denominator in the second fraction is 4x greater than the denominator in the first fraction, you must multiply the numerator by 4 to ensure the fractions remain equal.

Equivalent Fractions

x10

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

As the denominator in the second fraction is 10x greater than the denominator in the first fraction, you must multiply the numerator by ____ to ensure the fractions remain equal.
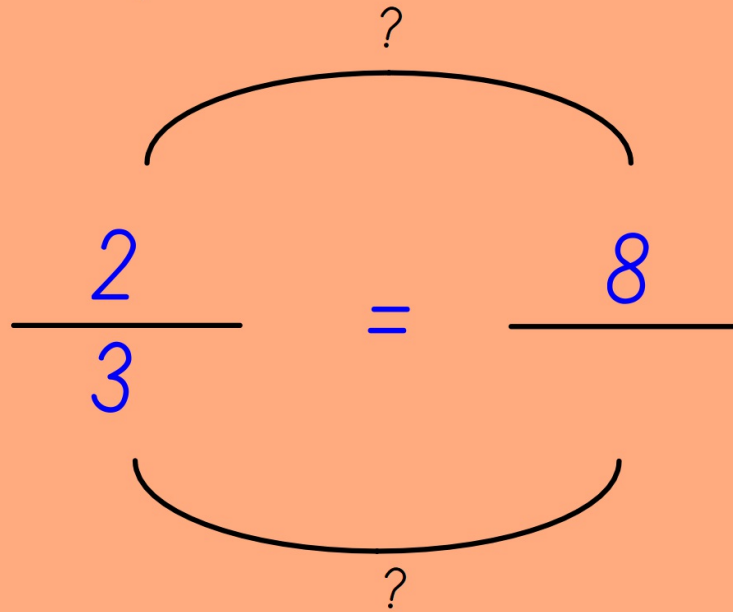
Equivalent Fractions
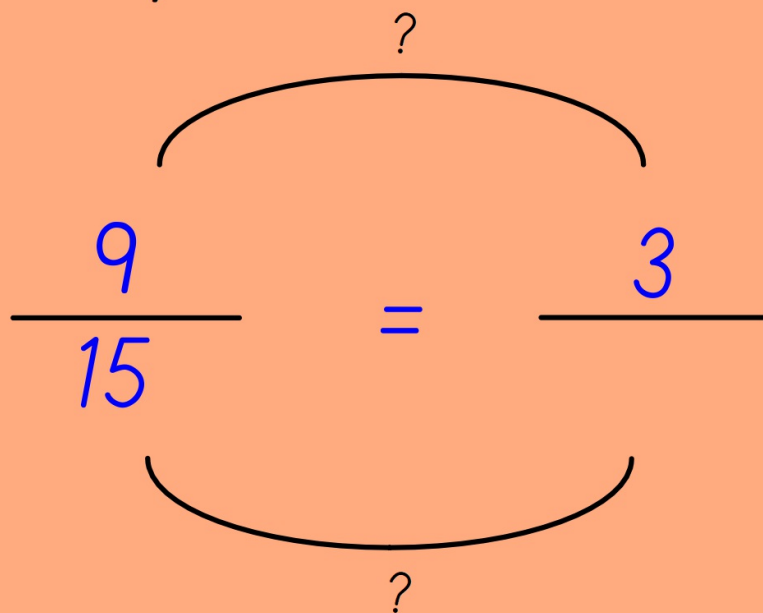
÷2

$$\frac{2}{8} = \frac{1}{}$$

÷2

As the numerator in the second fraction is _two_ times smaller than the denominator in the first fraction, you must _divide_ the numerator by _two_ to ensure the fractions remain equal.

Equivalent Fractions

?

$$\frac{2}{3} = \frac{8}{\quad}$$

?

As the denominator in the second fraction is _____ times greater than the denominator in the first fraction, you must multiply the numerator by _____ to ensure the fractions remain equal.

Equivalent Fractions

?

$$\frac{9}{15} = \frac{3}{\quad}$$

?

As the numerator in the second fraction is _____ times smaller than the denominator in the first fraction, you must <u>divide</u> the numerator by _____ to ensure the fractions remain equal.

Show me what you know...

Complete the attached tasks at your own level of confidence.

Present your fractions like this...

$$\frac{9}{15}$$

Show me your best presentation.
Check your answers.
If appropriate, answer in full sentences and explain your reasoning.

Challenge

Tommy is finding equivalent fractions.

$$\frac{3}{4} = \frac{5}{6} = \frac{7}{8} = \frac{9}{10}$$

He says,

I did the same thing to the numerator and the denominator so my fractions are equivalent.

Do you agree with Tommy?
Explain your answer.

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.

True or False?

Equivalent fractions (1)

$$\frac{4}{12} = \frac{3}{9}$$

White Rose Maths

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?