10.06.21

Lo: To recognise equivalent fractions.

Success Steps.

I know a fraction is an equal part of an amount or a shape.

I know the numerator represents the fraction.

I know the denominator represents the whole.

I can recognise equivalent fractions.

Starter

Multiple choice

Select the correct definition

$\frac{3}{6}$

a) A non-unit fraction has a denominator of 1. ✓

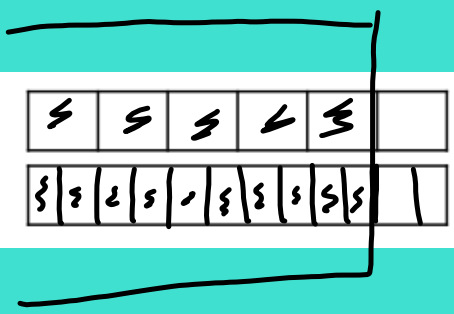
b) A non-unit fraction has a numerator that is more than 1. ✓

c) A non-unit fraction has a numerator that is 1. ✗

d) A non-unit fraction has a denominator that is more than 1. ✓

I do

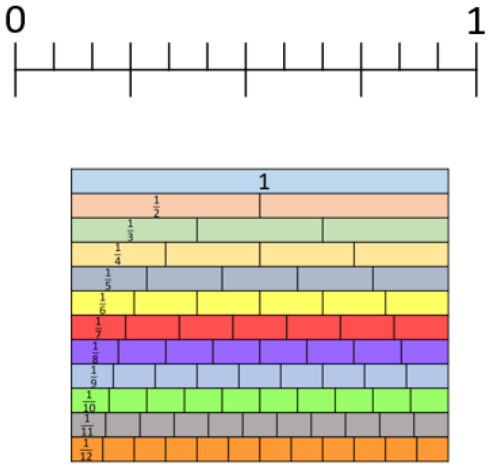
1) $\frac{5}{6} = \frac{10}{12}$ (×2)



We do

2) $\frac{9}{12} = \frac{3}{4}$ ÷3

3) $\frac{6}{9} = \frac{2}{3}$ ÷3 ×3

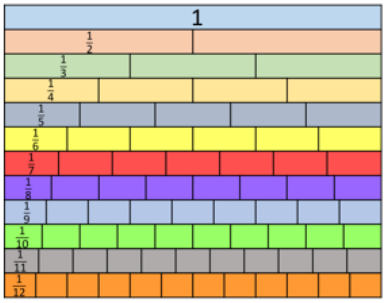


We do

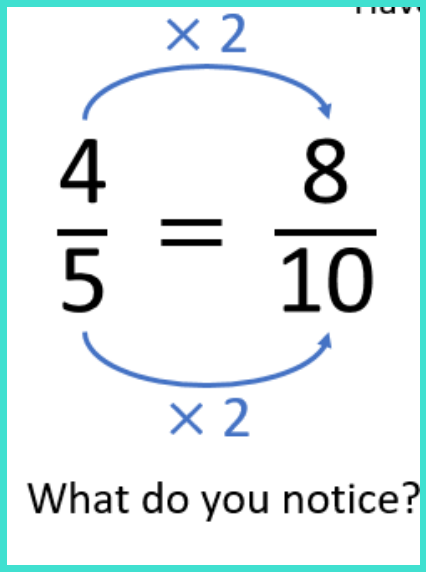
2) $\frac{9}{12} = \frac{\square}{4}$



3) $\frac{\square}{9} = \frac{2}{3}$



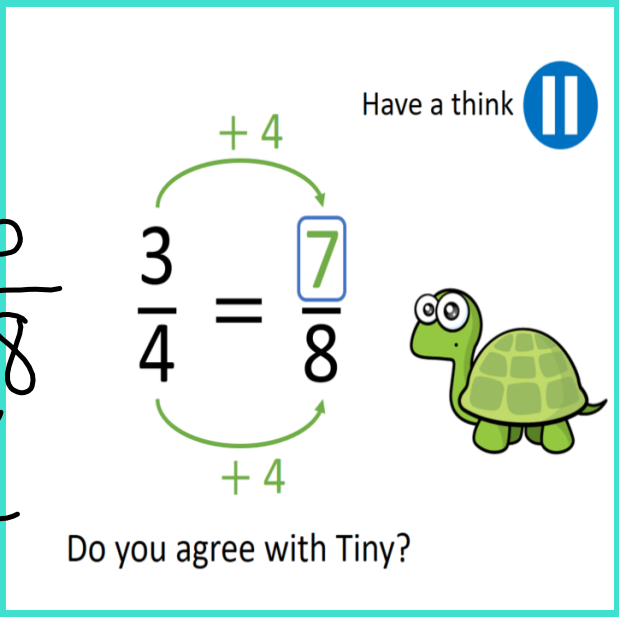
We do



We do

$\frac{3}{4} \times 2 = \frac{6}{8}$

$\frac{3}{4} \times 2 = \frac{6}{8}$

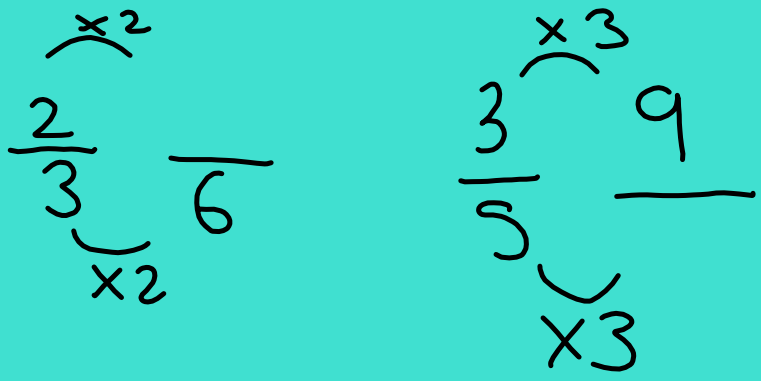


No

I do

How many equivalent fractions can you make using the following digits?

3, 5, 9, 6, 8, 2



We do

How many equivalent fractions can you make using the following digits?

3, 5, 9, 6, 8, 2, 4

$\frac{2}{3} \overset{\times 3}{=} \frac{6}{9}$ $\overset{\times 3}{}$

$\frac{2}{3} \overset{\times 2}{=} \frac{4}{6}$ $\overset{\times 2}{}$

4 Complete the equivalent fractions.

a) $\frac{1}{5} = \frac{\square}{10}$ d) $\frac{3}{10} = \frac{9}{\square}$ g) $\frac{8}{12} = \frac{2}{\square}$

b) $\frac{4}{5} = \frac{\square}{10}$ e) $\frac{6}{8} = \frac{3}{\square}$ h) $\frac{2}{\square} = \frac{10}{25}$

c) $\frac{3}{10} = \frac{6}{\square}$ f) $\frac{8}{12} = \frac{\square}{3}$ i) $\frac{1}{\square} = \frac{4}{28}$

5 a) Write the fractions in the correct place on the sorting diagram.

$\frac{8}{24}$ $\frac{3}{12}$ $\frac{5}{15}$ $\frac{6}{24}$ $\frac{4}{12}$ $\frac{9}{36}$ $\frac{3}{9}$ $\frac{4}{16}$

	equivalent to $\frac{1}{3}$	equivalent to $\frac{1}{4}$
odd denominator	$\frac{5}{15}$ $\frac{3}{9}$	
even denominator	$\frac{8}{24}$ $\frac{4}{12}$	$\frac{6}{24}$ $\frac{9}{36}$ $\frac{4}{16}$ $\frac{3}{12}$

b) Are any of the boxes empty?

Why do you think this is?

Talk about your answer with a partner.

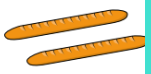
6 Find three ways to make the fractions equivalent.

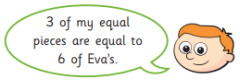
a) $\frac{2}{\square} = \frac{4}{\square}$ b) $\frac{1}{\square} = \frac{4}{\square}$ c) $\frac{\square}{3} = \frac{\square}{9}$

7 Eva and Ron have a baguette each.

The baguettes are the same size.

Eva cuts her baguette into 8 equal pieces.



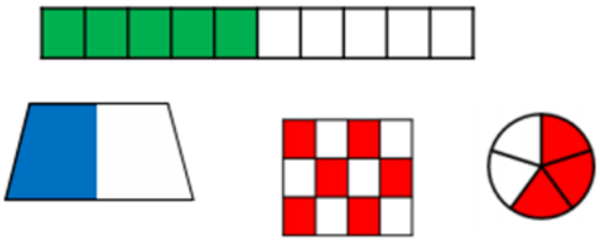


How many equal pieces has Ron cut his baguette into?

$3 \div 3 = 1$, $9 \div 3 = 3$

$4 \div 4 = 1$, $16 \div 4 = 4$

You do



What can you work out from the shapes?