

Maths home learning: 22.02.21

UNIT AND NON-UNIT FRACTIONS

<https://vimeo.com/502315136>

Copy and paste this link into your web browser.

This will bring you to the units we will be exploring over the next week.

Today we will be recapping our knowledge of unit and non-unit fractions.

Please watch this video and note down any strategies that might help you complete the worksheet.

It would be useful to take notes on a notepad, or whiteboard whilst watching the video – remember, if you get stuck on the worksheet at any point, you can always watch the video again.

1 Write fractions to complete the sentences.



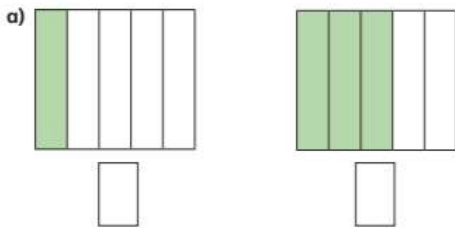
- a) of the counters are yellow.
- b) of the counters are red.

2 Write fractions to complete the sentences.

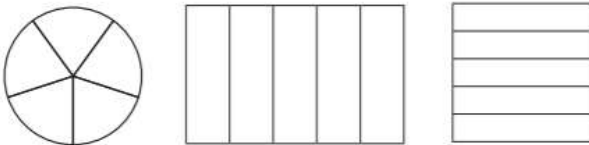
- a) of the tower is green.
- b) of the tower is yellow.
- c) of the tower is blue.



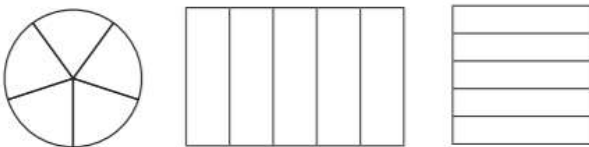
3 What fraction of each shape is shaded?



4 a) Colour $\frac{1}{5}$ of each shape.

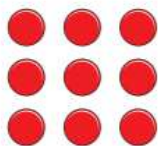


b) Colour $\frac{3}{5}$ of each shape.

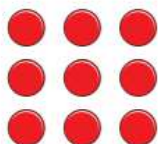


What is the same and what is different about your answers?

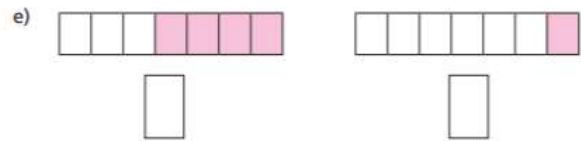
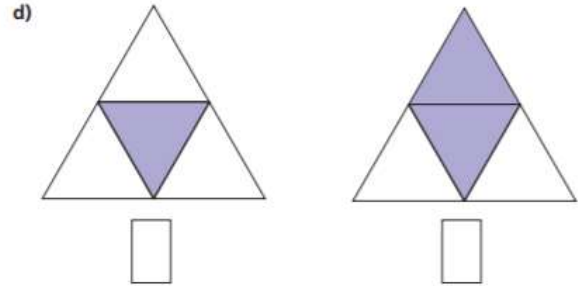
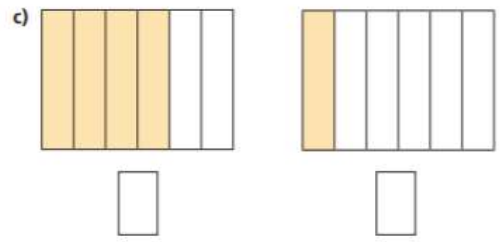
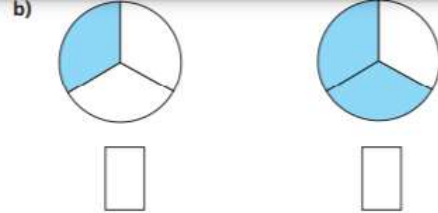
5 a) Circle $\frac{1}{3}$ of the counters.



b) Circle $\frac{2}{3}$ of the counters.



What is the same and what is different about your answers?



Tick the unit fraction in each pair of shapes.
How did you know which was the unit fraction?

6 Write the fractions in the table.

$\frac{1}{6}$	$\frac{2}{3}$	$\frac{3}{4}$	$\frac{1}{10}$	$\frac{1}{8}$
$\frac{3}{5}$	$\frac{1}{4}$	$\frac{1}{99}$	$\frac{6}{1}$	$\frac{1}{250}$

Unit fractions	Non-unit fractions

Write two more examples of your own in each column.

7 a) What is a unit fraction? What is a non-unit fraction?

Talk about it with a partner.

b) Complete the sentences.

An example of a unit fraction is

The numerator is always

An example of a non-unit fraction is

The numerator is always greater than

Maths home learning: 23.02.21

WHAT IS A FRACTION?

<https://vimeo.com/502527306>

Copy and paste this link into your web browser.

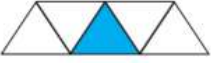
This will bring you to the units we will be exploring over the next week.

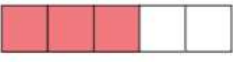
Today we will be learning what a fraction of something is.

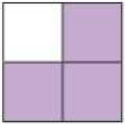
Please watch this video and note down any strategies that might help you complete the worksheet.


It would be useful to take notes on a notepad, or whiteboard whilst watching the video – remember, if you get stuck on the worksheet at any point, you can always watch the video again.

1 What fraction of each shape is shaded?

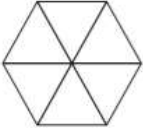
a) 

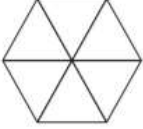
b) 


c) 

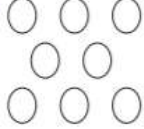
d) 

2 Shade each diagram to represent the fractions.

a)  $\frac{1}{6}$

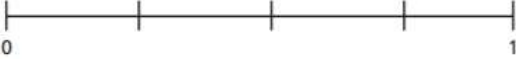
b)  $\frac{5}{6}$


c)  $\frac{5}{8}$

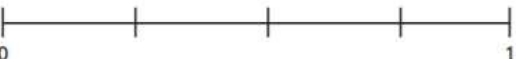
d)  $\frac{5}{8}$

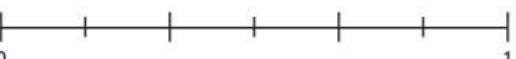


5 Draw an arrow to show the position of the fraction on the number line.

a) $\frac{1}{4}$ 

b) $\frac{3}{5}$ 

c) $\frac{1}{2}$ 

d) $\frac{1}{3}$ 

6 Draw an arrow to show the position of $\frac{5}{5}$ on the number line.



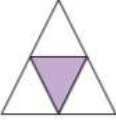


What do you notice?



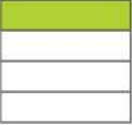
3 Circle the unit fractions.

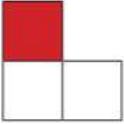
- $\frac{1}{3}$ $\frac{1}{5}$ $\frac{3}{5}$ $\frac{1}{8}$ $\frac{2}{3}$ $\frac{10}{11}$

How do you know which are unit fractions?

4 a) Tick the shapes with one third shaded.

A  D  F 

B  E  G 

C 

b) Complete the sentences to describe the shapes with one third shaded.

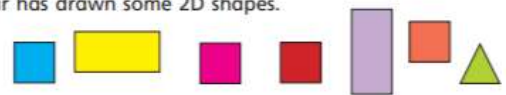
There are equal parts altogether.

out of equal parts is shaded.

of the shape is shaded.

7 Draw four different representations of $\frac{3}{4}$

8 Amir has drawn some 2D shapes.



a) What fraction of the shapes are triangles?

b) What fraction of the shapes are squares?

c) What fraction of the shapes have four sides?

d) Draw 2D shapes to match the description.

$\frac{1}{5}$ are squares, $\frac{2}{5}$ are triangles, $\frac{3}{5}$ have more than 3 sides.

Compare shapes with a partner.

What is the same about your shapes? Is anything different?

Maths home learning: 24.02.21

TENTHS

<https://vimeo.com/502315833>

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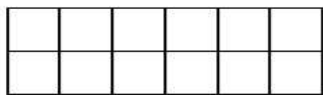
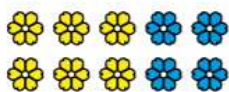
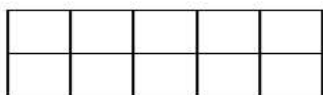
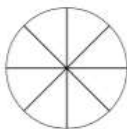
This will bring
you to the units
we will be
exploring over
the next week.

**Today we will be
learning about tenths.**

Please watch this video
and note down any
strategies that might
help you complete the
worksheet.

It would be useful to take notes on a notepad, or whiteboard whilst watching the video – remember, if you get stuck on the worksheet at any point, you can always watch the video again.

1 Tick the pictures that show tenths.



2 Write fractions to complete the sentences.

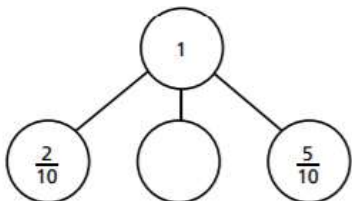


a) of the counters are yellow.

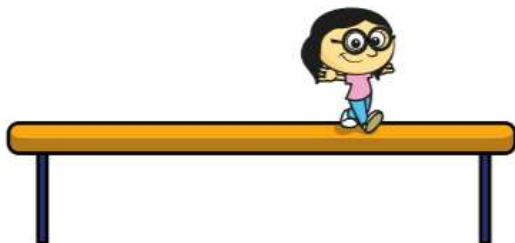
b) of the counters are red.

c) of the counters are green.

d)



5 Annie has travelled $\frac{7}{10}$ of the way across a balance beam.



How many tenths does she have left to travel?

6 10 boys share 3 pizzas equally.

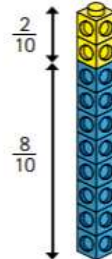


What fraction of a pizza do they each get?

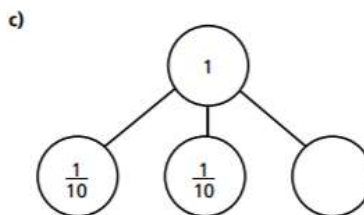
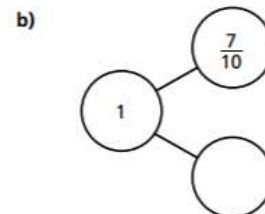
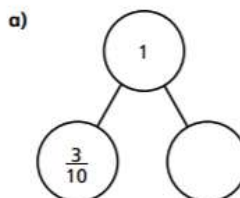
3 Amir has some blue and yellow cubes.

He makes a tower using 10 cubes.

Investigate how many different towers Amir can make with 10 cubes, if every tower has a different fraction of blue and yellow cubes.



4 Complete the part-whole models.



7 Dani has a bag of sweets.

$\frac{1}{2}$ of the sweets are red.

$\frac{3}{10}$ of the sweets are yellow.

The rest are green.

What fraction of the sweets are green?



8 Mo also has a bag of sweets.

$\frac{4}{10}$ of his sweets are red.

The rest are green or yellow.

What fraction of Mo's sweets could be green?

What fraction could be yellow?

How many possible answers can you find?

Compare answers with a partner.

Maths home learning: 25.02.21

COUNT IN TENTHS

<https://vimeo.com/502686139>

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this link into
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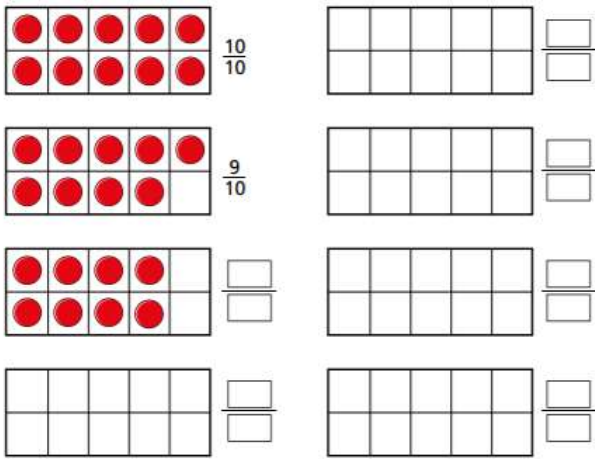
This will bring
you to the units
we will be
exploring over
the next week.

**Today we will be
learning to count in
tenths.**

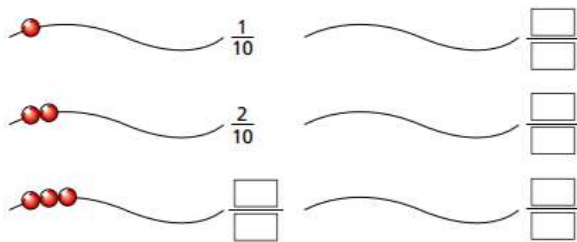
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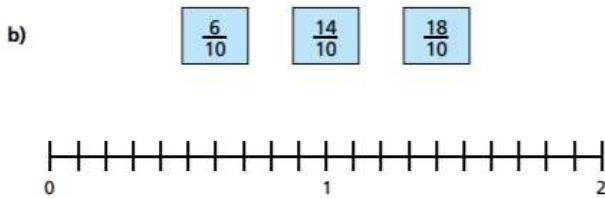
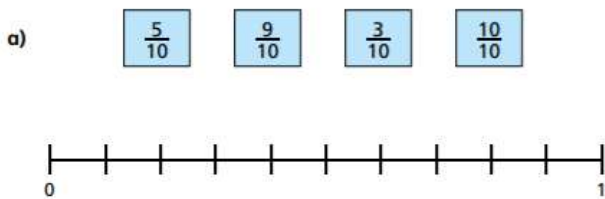
1 Continue the sequence.



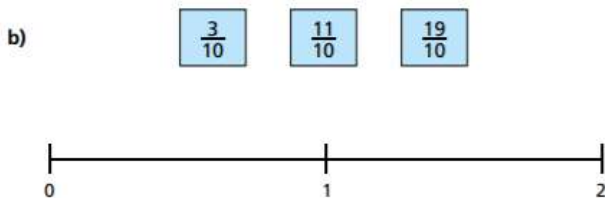
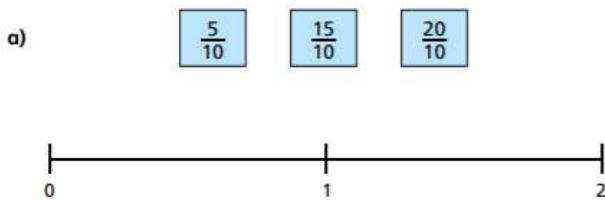
2 Continue the sequence.



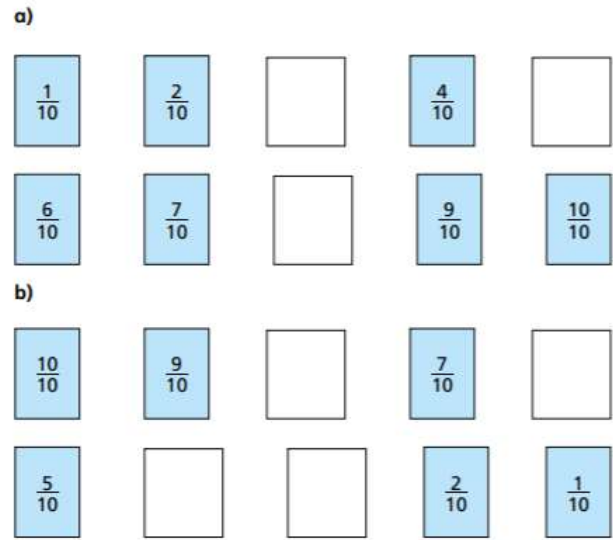
5 Write the fractions in the correct places on the number lines.



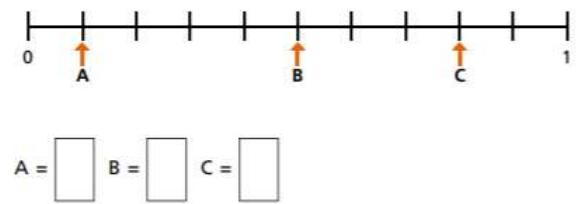
6 Draw and label arrows to estimate the position of the fractions on the number lines.



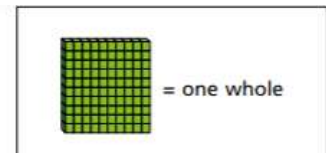
3 Write the missing fractions in each sequence.



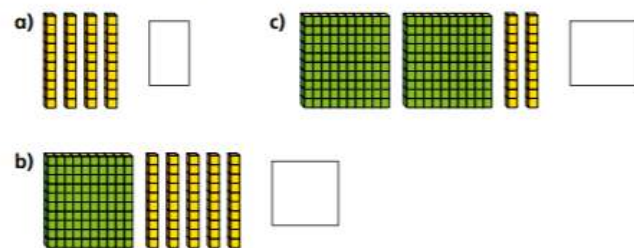
4 What fraction is each arrow pointing to?



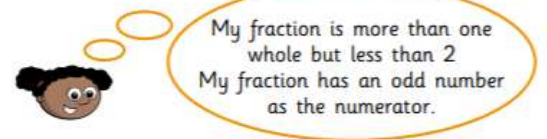
7



What number is represented in each picture?



8 Whitney is thinking of a fraction.



What could Whitney's fraction be?

List all the possible fractions.

Compare answers with a partner.

Maths home learning: 26.02.21

EQUIVALENT FRACTIONS (I)

<https://vimeo.com/504289061>

Copy and paste
this link into
your web
browser.

This will bring
you to the units
we will be
exploring over
the next week.

**Today we will be
learning about
equivalent fractions.**

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and note down any
strategies that might
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worksheet.

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Equivalent fractions (1)

1 Shade the bar models to represent the fractions.

a) Shade $\frac{1}{2}$ of the bar model.

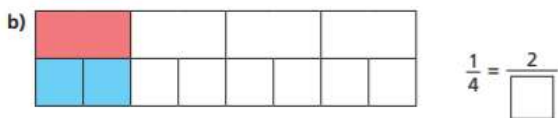
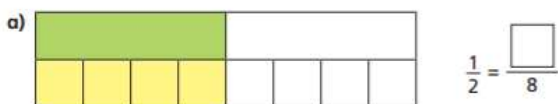


b) Shade $\frac{2}{4}$ of the bar model.

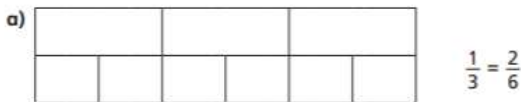


What do you notice?

2 Complete the equivalent fractions.

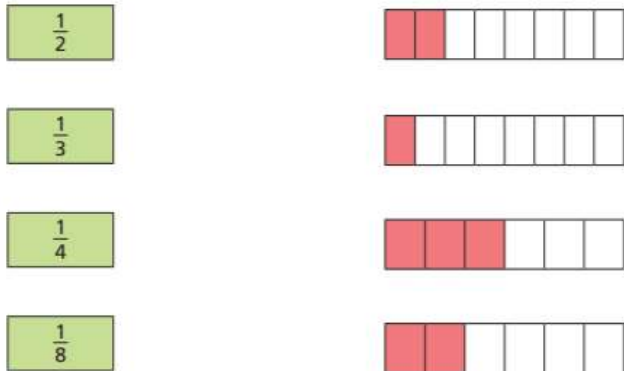


3 Shade the bar models to represent the equivalent fractions.



Can you find any more equivalent fractions using the bar models?

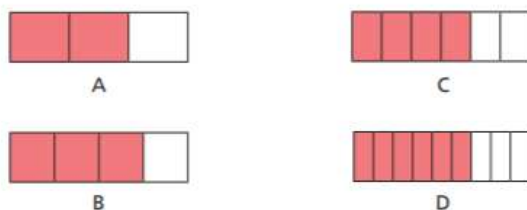
4 Match each bar model to its equivalent fraction.



5 Shade the bar models to complete the equivalent fractions.

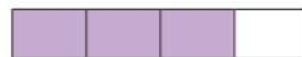


6 The bar models represent fractions.



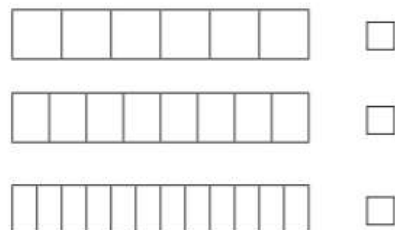
Which is the odd one out? _____
Why do you think this?

7 This bar model represents $\frac{3}{4}$



Tick the bar models that can be used to show a fraction that is equivalent to $\frac{3}{4}$

Shade the bar models to support your answers.



Talk to a partner about your answers.