

30.3.20 L.O. - To recognise and understand non unit fractions.

Today we introduce non-unit fractions $\frac{2}{3}$ and $\frac{3}{4}$
for the first time.

A non-unit fraction is $\frac{2}{3}$, $\frac{3}{4}$, $\frac{3}{5}$ etc.

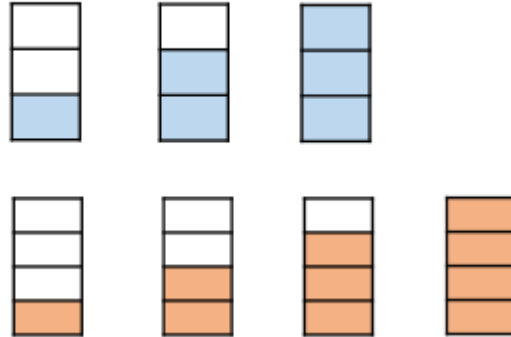
It's a fraction without 1 at the top!

Talk and do!

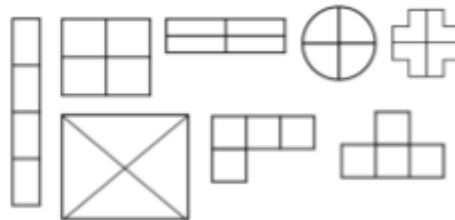
- How many quarters make a whole? How many thirds make a whole? What do you notice?
- How many quarters are there in $\frac{3}{4}$?
- In $\frac{3}{4}$ what does the digit 3 represent? What does the digit 4 represent?
- Give me an example of a unit fraction and a non-unit fraction.

Read and talk through the following tasks.

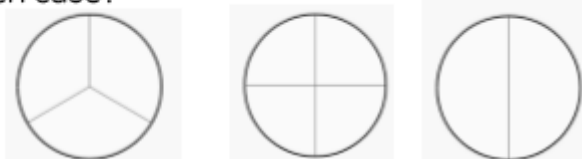
What fraction is shaded in each diagram?



Shade $\frac{3}{4}$ of each shape.



Shade in the whole of each circle. What fraction is represented in each case?




Now in your book do the following.

Draw shapes and split into quarters. Shade $\frac{3}{4}$.

Draw shapes and split into thirds. Shade $\frac{2}{3}$.

Alex says,

I have shaded $\frac{2}{2}$ of the shape.



What mistake might Alex have made?

Sort the fractions into the table.

	Fractions equal to one whole	Fractions less than one whole
Unit fractions		
Non-unit fractions		

$\frac{3}{4}$

$\frac{2}{2}$

$\frac{1}{3}$

$\frac{1}{4}$

$\frac{2}{3}$

$\frac{4}{4}$

$\frac{3}{3}$

$\frac{1}{2}$

What do you notice?

Are there any boxes in the table empty?

What fraction could you write here?

Answers to the reasoning questions....

Alex says,

I have shaded $\frac{2}{2}$ of the shape.

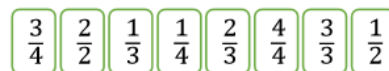


What mistake might Alex have made?

She has shaded two quarters of the shape. She may have thought that the numerator represents the number of parts that are shaded and the denominator represents the number of parts that aren't. She doesn't realise the denominator represents the whole.

Sort the fractions into the table.

	Fractions equal to one whole	Fractions less than one whole
Unit fractions		
Non-unit fractions		



What do you notice?

Are there any boxes in the table empty?

What fraction could you write here?

Top left: Empty
 Top right: $\frac{1}{3}$, $\frac{1}{4}$ and $\frac{1}{2}$
 Bottom left: $\frac{2}{2}$, $\frac{3}{2}$
 and $\frac{4}{4}$
 Bottom right: $\frac{3}{4}$ and $\frac{2}{3}$
 There are no unit fractions that are equal to one whole. $\frac{1}{1}$ would fit here.