Fractions

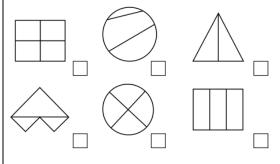
Each step can be one lesson. Steps 1 to 5 are week one of White Rose lessons. Steps 6 to 10 are week 2. Steps 11 and 12 are the start of week 3. If you can't access White Rose you can still follow these steps.

<u>Step 1- Make equal parts</u>

Concept- Recognising that fractions are part of a whole and that the parts must be equal. This can be explored practically by folding paper/shapes, cutting up cakes/bread/pizza etc. or by sharing objects equally.

Example:

Tick the shapes that show equal parts.

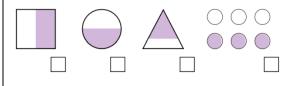


Step 2- Recognise a half

Concept- Develop an understanding of what a half is- something split in to two equal parts (shapes, objects, numbers etc).

Example:

Tick the diagrams that have one half shaded.



<u>Step 3- Find a half</u>

Concept- Build on the understanding of what a half is, to find one half of a shape or quantity.

This can be explored by finding half of shapes, folding paper shapes etc. and also by finding half of numbers. To find half of numbers dots can be drawn in two circles or physical objects can be split in to two groups (eg. coins, sweets, counters).

Example:

Mo and Eva have 12 tennis balls.

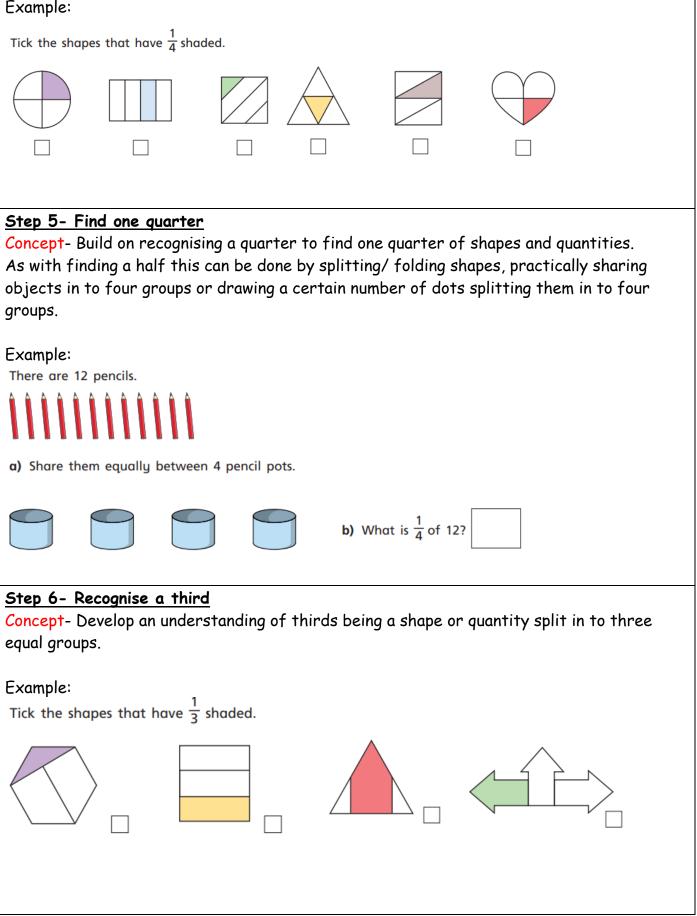


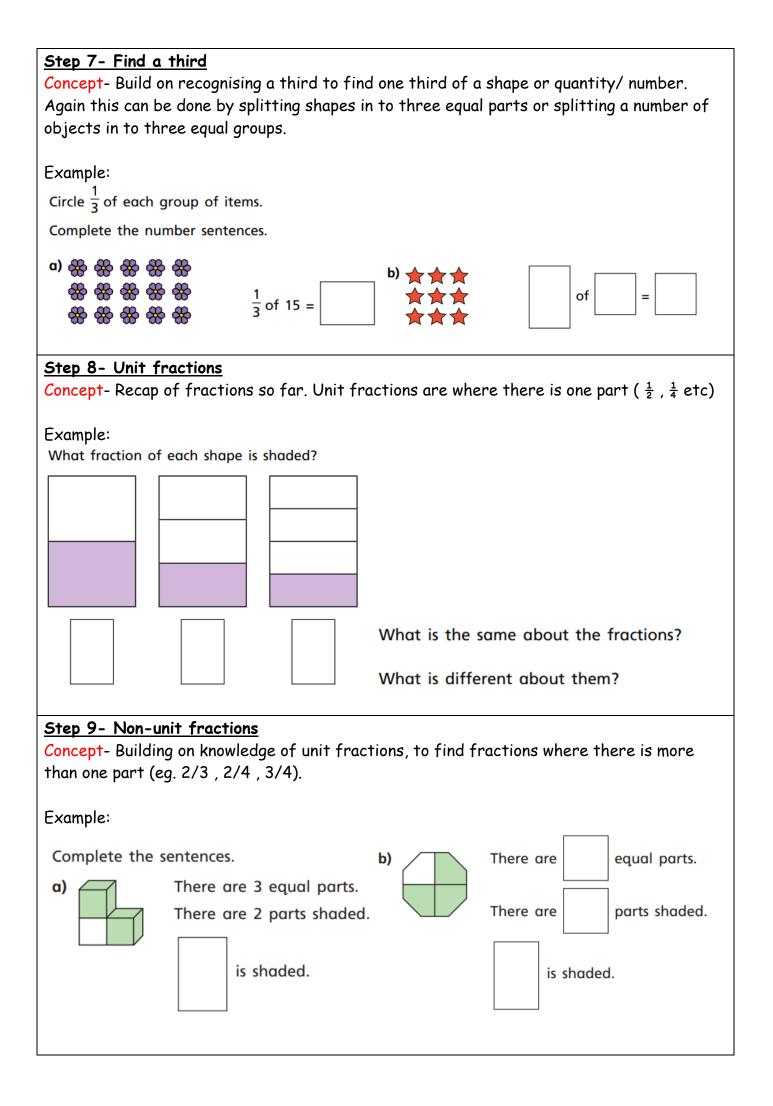
Share the tennis balls equally between Mo and Eva.

Step 4- Recognise a guarter

Concept- Develop an understanding of guarters being a shape or guantity split in to four equal groups.

Example:





Step 10- Equivalence of one half and two quarters.
Concept- Developing an understanding, in images and with numbers, that one half is the
same as two quarters.
It is useful to find/ colour one half of a shape and then 2/4 of the same shape for this, as
well as finding half and two quarters of a number.
Example:
Here are two bar models.
2
a) Colour $\frac{2}{4}$ of the bar model.
b) Colour $\frac{1}{2}$ of the bar model.
What do you notice? Talk to a partner.
Step 11 - Finding three quarters
Concept- build on knowledge of finding a quarter and non-unit fractions to find three
quarters of shapes and quantities. Start by find one guarter and use this to then find three guarters
Start by find one quarter and use this to then find three quarters.
Example:
Rosie is sharing out 16 strawberries.
She shares them into 4 equal groups.
a) What is $\frac{1}{4}$ of the strawberries? c) What is $\frac{3}{4}$ of the strawberries?
$\frac{1}{4}$ of 16 = $\frac{3}{4}$ of 16 =
b) What is $\frac{2}{4}$ of the strawberries? d) What is $\frac{4}{4}$ of the strawberries?
$\frac{2}{4}$ of 16 = $\frac{4}{4}$ of 16 =
5
Step 12- Counting in fractions
Concept- To be able to count in fractions, recognising you can go beyond one whole number.
Example:
Count the fractions out loud and continue
Complete the number line. the sequence.
$0 \frac{1}{2} 1 1\frac{1}{2}$
$0 \frac{1}{2} \frac{2}{2} \frac{3}{2}$