Maths - Year 3

Number and the Number System 7: Understanding fractions of a whole and fractions as numbers.

Key Vocabulary	
Half	Splitting an amount or number into two equal parts
Quarter	Splitting an amount or number into four equal parts.
Three quarters	Having 3 out of 4 equal parts.
Numerator	The upper number of a fraction.
Denominator	The lower number of a fraction

Mathematical Skills

- Read proper fractions, including unit and non-unit fractions and interpret them as 'one of two equal parts', 'three of four equal parts' etc.
- Explain where to mark fractions on a number line and can do this consistently.
- Use the term 'numerator' to describe the number of fractional parts and 'denominator' as the type of fractional parts.
- Notice that the greater the number of equal parts of any whole, the smaller each part becomes.
- Write adding and subtracting sentences for fractions with the same denominator.

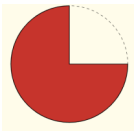
Mathematical Methods

- Explore dividing shapes into equal parts and relate the number of parts to the 'denominator'.

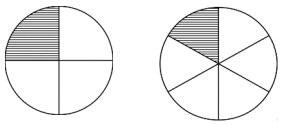
The number of parts	Words	Notation
1	whole	1
2	halves	$\frac{1}{2}$
3	thirds	$\frac{1}{3}$
4	quarters	$\frac{1}{4}$
5	fifths	$\frac{1}{5}$
6	sixths	$\frac{1}{6}$
7	sevenths	$\frac{1}{7}$
8	eighths	$\frac{1}{8}$
9	ninths	$\frac{1}{9}$
10	tenths	$\frac{1}{10}$

- Comparing a part with the whole e.g. ¾ is smaller than a whole 1.

¾ < 1

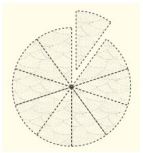


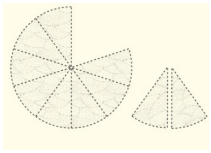
- Comparing smaller and larger parts e.g.



¼ > ⅙

- Explore adding and subtraction sentences to understand parts and whole e.g. $\frac{10}{10} = 1$.

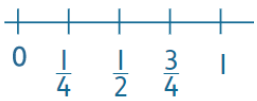




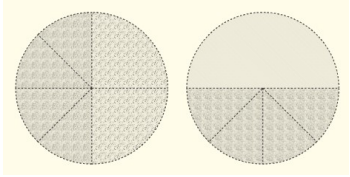
$\frac{10}{10} - \frac{2}{10} = \frac{8}{10}$

$\frac{2}{10} + \frac{8}{10} = \frac{10}{10}$

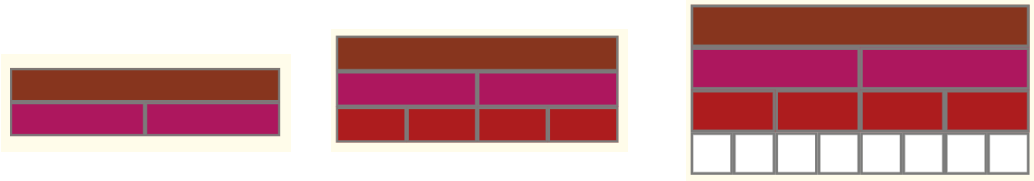
- Understanding fractions as numbers on a number line e.g.



- Exploring simple equivalence e.g. $\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$



- Exploring equivalence with number rods.



Can you..?

- What fraction of the cubes are red?

- Ben has £16. Tia has half as much money as Ben. How much money does Tia have?

- Tom saves £8. He spends ¾ of it. How much does he have left?

- Fill in the missing box with < or > $\frac{2}{50} \square \frac{2}{60}$

- Fill in the missing boxes on the number line.