

Maths - Year 3

Number and the Number System 8: Using fraction notation to describe parts of a discrete set.

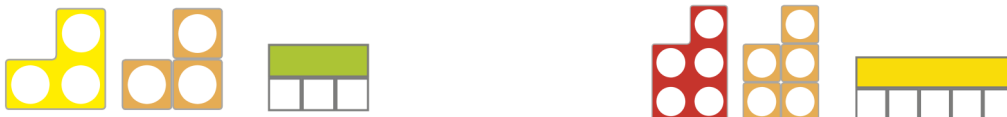
Key Vocabulary		Mathematical Skills
Ordinal number words	Third, fourth, fifth, sixth etc.	<ul style="list-style-type: none"> - Use the term 'numerator' and 'denominator' to describe fraction notation with unit fractions and proper fractions. - Name fractions of a whole (unit fractions and non-unit or proper fractions) - Write a list of fractions equivalent to one half. - Can add and subtract fractions with the same denominators. - Make links between finding fractions of a set and dividing by an integer.
Numerator	The upper number of a fraction.	
Denominator	The lower number of a fraction	

Mathematical Methods

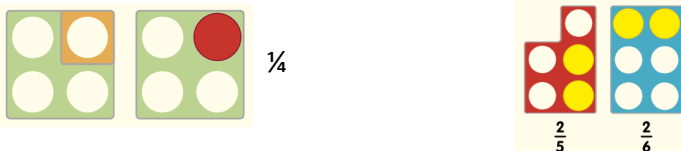
- Explore fractions of a set e.g. $\frac{1}{3}$



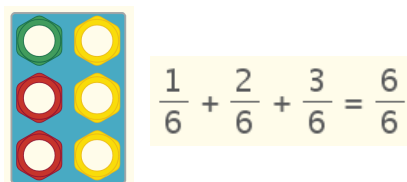
- Use apparatus to represent part-whole relationships of unit fractions $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}, \frac{1}{6}, \frac{1}{7}, \frac{1}{8}, \frac{1}{9}$



- Represent unit and non-unit fractions with Numicon Shapes or number rods.



- Write adding and subtracting sentences with fractions with the same denominator e.g.



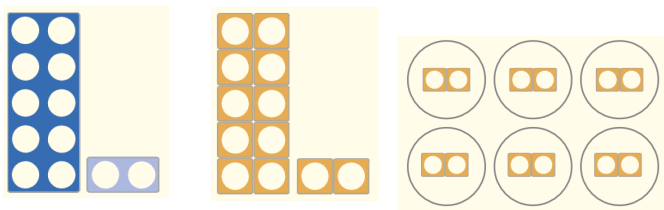
- Finding half of a set and exploring equivalent fractions.

Number of coins	Finding $\frac{1}{2}$ the number of coins	Fractions equivalent to $\frac{1}{2}$
2 coins	$\frac{1}{2}$ of 2 = 1	$\frac{1}{2}$
4 coins	$\frac{1}{2}$ of 4 = 2	$\frac{2}{4}$
6 coins	$\frac{1}{2}$ of 6 = 3	$\frac{3}{6}$
8 coins	$\frac{1}{2}$ of 8 = 4	$\frac{4}{8}$
10 coins	$\frac{1}{2}$ of 10 = 5	$\frac{5}{10}$

- Making connections between fractions and multiplying and dividing, e.g.

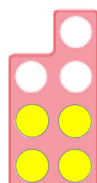
$\frac{2}{8}$ of a chicken is the same as 2 out of 8 pieces ($8 \div 4 = 2$ or $2 \times 4 = 8$)

- Recognise and name fractions of a total or quantity e.g. $\frac{1}{6}$ of 12 = 2



Can you..?

- What fraction of the Numicon shape is covered?



- What fraction of the number rod is red?



- Can you write an adding sentence to show the fractions of the Numicon Shape?



- What is $\frac{1}{3}$ of 9?