Fractions
- Count up and down in tenths
- Understand fractions as numbers on the positive number line
- Understand unit fractions as a division of a quantity ($\frac{1}{3}$ of 12 = 12 ÷ 3)
- Find, and write fractions of a set of objects where the denominator is small
- Solve problems with fractions in the context of a whole, numbers, measurement or a shape
- Recognise and show, using diagrams, equivalent fractions with small denominators
- Order and compare fractions with the same denominator
- Add and subtract fractions with the same denominator within one whole ($\frac{2}{7} + \frac{3}{7} = \frac{5}{7}$)

Mental and practical strategies and informal notation
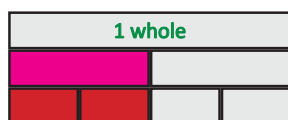
Fractions as a number
Count up in halves, quarters and tenths

Show the position of $\frac{3}{10}$, $\frac{4}{5}$ and $1\frac{1}{2}$ on a number line.   Match each picture to the correct place on the number line and label it.
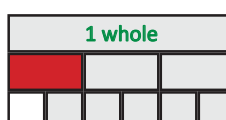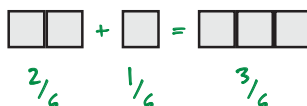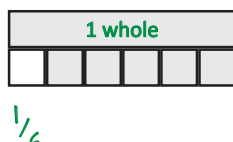

Comparing and Equivalence
Using Cuisenaire:

$\frac{1}{2} = \frac{2}{4}$ One half is equal to two quarters

$\frac{1}{4} > \frac{1}{6}$ One quarter is greater than one sixth

Add and subtract fractions
2/6 + 1/6 =

$\frac{2}{6}$ $\frac{1}{6}$ $\frac{3}{6}$

What fraction of one whole is equal to 3/6?

Use the rods to check your answer.

What fraction pairs can you find that total to one?

$\frac{3}{8} + \frac{5}{8} = 1$

$\frac{2}{5} + \frac{3}{5} = 1$
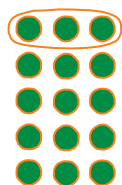
Fractions as an operator on a set of objects, a number or a shape
Shade 2/5 of the shape.

2 parts out of 5

Ring 1/5 of 15

Would you rather eat 1/3 of 12 sweets or 1/4 of 20 sweets?

$\frac{1}{3}$ of 12 = 4

$\frac{1}{4}$ of 20 = 5

I would rather have...

Fractions and division
4 strawberry laces divided by 10 children = $4 \div 10 = \frac{4}{10}$ divided by $= \frac{4}{10}$ each

15 apples ÷ 5 plates. What fraction of apples are on each plate? $\frac{1}{5}$ of the apples are on each plate

Problem solving using the bar method
Meg has 20 stickers. $\frac{1}{2}$ are dog stickers, $\frac{1}{4}$ are cat stickers and the rest are of rabbits. How many rabbit stickers does Meg have?

Meg has 5 rabbit stickers

Method 1
10 + 5 =
20 - 15 = 5

Method 2
1/4 stickers left
1/4 of 20 = 5