St John Fisher RC Primary School
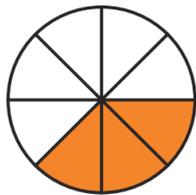## Year 3 Maths Knowledge Organiser
Spring Two – Fractions (A)

Learning Intentions

- I can understand the denominators in a unit fraction.
- I can recognise unit fractions.
- I can compare unit fractions.
- I can recognise halves, quarters and thirds in shapes.
- I can count in fractions on a number line.
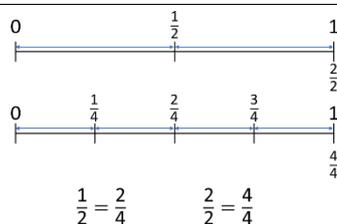- I can find equivalent fractions on a number line.
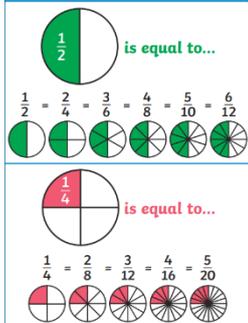
What are fractions?

Numerator – How many equal parts of the whole are needed?

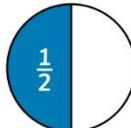**Denominator** – How many equal parts are in the whole?

$\frac{1}{2} = \frac{2}{4}$ $\frac{2}{2} = \frac{4}{4}$

Equivalent Fractions

$\frac{1}{2}$ is equal to...

$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{6}{12}$

$\frac{1}{4}$ is equal to...

$\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{4}{16} = \frac{5}{20}$

Recognising Unit Fractions

Half – A whole split into two equal parts. $\frac{1}{2}$

$\frac{1}{2}$ of 8 = 4

Quarter – A whole split into four equal parts. $\frac{1}{4}$
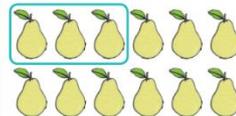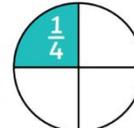
$\frac{1}{4}$ of 12 = 3

Third – A whole split into three equal parts. $\frac{1}{3}$
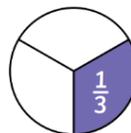
$\frac{1}{3}$ of 6 = 2

Non-unit Fractions

$\frac{2}{3}$

$\frac{3}{4}$

Key Vocabulary

Fraction	A part or section of a shape or amount.
Numerator	The top number of the fraction – how many parts we are looking at.
Denominator	The bottom number of the fraction – how many parts there are altogether.
Unit Fraction	A fraction with a numerator of 1.
Non-unit fraction	A fraction with a numerator of more than 1.
Equivalent	fractions that represent the same value, even though they look different e.g. 2/4 = 1/2
Half	One of two equal parts e.g. 1/2
Quarter	One of four equal parts e.g. 1/4
Third	One of three equal parts e.g. 1/3
Tenth	One of ten equal parts e.g. 1/10

Assessment