Fractions Mat
Working towards Year 3

Recognise, Name and Write Fractions

Count up and down in tenths
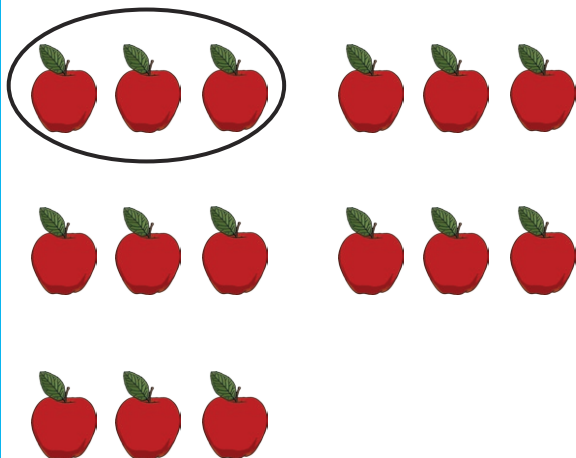
"One tenths, two tenths, three tenths..."

$$\frac{1}{10}$$
$$\frac{2}{10} \qquad \frac{3}{10}$$

Recognise that tenths arise from dividing an object into ten equal parts

Recognise, find and write fractions of a discrete set of objects

Unit fractions:

Find $\frac{1}{5}$ of these objects.

Equivalence

Recognise and show, using diagrams, equivalent fractions with small denominators

Which equivalent fractions do these represent?

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

Solve Problems

Solve problems that include some of the other objectives

Which is greater?

$\frac{1}{4}$ of 20p   or $\frac{1}{3}$ of 30p

$\frac{1}{4}$ of 20p (5p)   < $\frac{1}{3}$ of 30p (10p)

Calculate

Add and subtract fractions with the same denominator
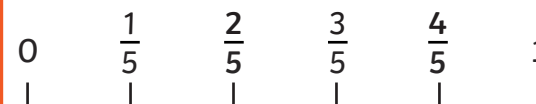
$$\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$$

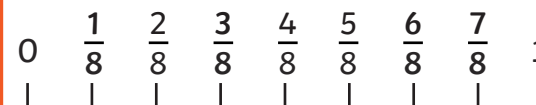$$\frac{4}{5} - \frac{1}{5} = \frac{3}{5}$$

Compare and Order

Compare and order fractions with the same denominators

$$\frac{4}{5} > \frac{2}{5}$$

$$0 \qquad \frac{1}{5} \qquad \frac{2}{5} \qquad \frac{3}{5} \qquad \frac{4}{5} \qquad 1$$

These fractions are ordered from smallest to greatest.

$$\frac{1}{8} \quad \frac{3}{8} \quad \frac{6}{8} \quad \frac{7}{8}$$

$$0 \quad \frac{1}{8} \quad \frac{2}{8} \quad \frac{3}{8} \quad \frac{4}{8} \quad \frac{5}{8} \quad \frac{6}{8} \quad \frac{7}{8} \quad 1$$
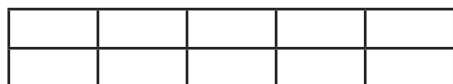
Fractions Mat
Expected Year 3

Recognise, Name and Write Fractions

Count up and down in tenths

"One tenths, two tenths, three tenths..."

$\frac{1}{10}$
$\frac{2}{10}$ $\frac{3}{10}$
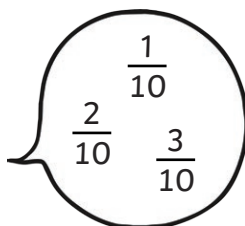
Recognise that tenths arise from dividing an object into ten equal parts...

...and in dividing one digit numbers of quantities by 10

$7 \div 10 = \frac{7}{10}$

Recognise, find and write fractions of a discrete set of objects

Unit fractions:

Find $\frac{1}{5}$ of these objects.

Non-unit fractions with small denominators:

Find $\frac{2}{3}$ of these objects.

Equivalence

Recognise and show, using diagrams, equivalent fractions with small denominators

Which equivalent fractions do these represent?

$\frac{4}{6} = \frac{2}{3}$

Solve Problems

Solve problems that include some of the other objectives

Which is greater?

$\frac{3}{4}$ of 24p   or $\frac{1}{3}$ of 48p

$\frac{3}{4}$ of 24p (18p) > $\frac{1}{3}$ of 48p (16p)

Calculate

Add and subtract fractions with the same denominator

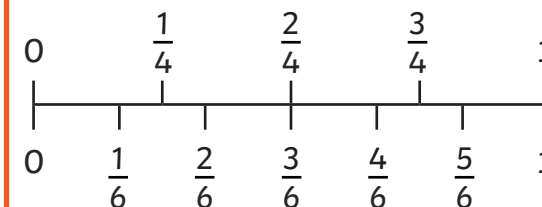$\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$

$\frac{4}{5} - \frac{1}{5} = \frac{3}{5}$

Compare and Order

Compare and order unit fractions and fractions with the same denominators.

$\frac{1}{4} > \frac{1}{6}$

0   $\frac{1}{4}$ $\frac{2}{4}$ $\frac{3}{4}$ 1

0   $\frac{1}{6}$ $\frac{2}{6}$ $\frac{3}{6}$ $\frac{4}{6}$ $\frac{5}{6}$ 1

Order these fractions smallest to largest.

$\frac{7}{8}$ $\frac{3}{8}$ $\frac{1}{8}$ $\frac{6}{8}$

$\frac{1}{8}$ $\frac{3}{8}$ $\frac{6}{8}$ $\frac{7}{8}$

Fractions Mat
Greater Depth Year 3

Recognise, Name and Write Fractions

Count up and down in tenths

"nine tenths, eight tenths, seven tenths..."

$$\frac{9}{10}$$
$$\frac{8}{10} \quad \frac{7}{10}$$
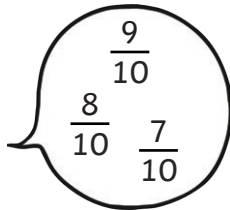
Recognise that tenths arise from dividing an object into ten equal parts...

Explain how you could show $\frac{3}{10}$ in this rectangle:

...and when dividing single digit numbers by 10

What is one tenth of seven? $\frac{7}{10}$

Recognise, find and write fractions of a discrete set of objects

Unit fractions:

Which multiplication fact would you use to find $\frac{1}{8}$ of 48?   8 x 6 / 6 x 8

Non-unit fractions with small denominators:

Find $\frac{2}{5}$ of £1, and give a real life application.

40p, which is two 20p's, as 20p is $\frac{1}{5}$ of £1

Equivalence

Recognise and show, using diagrams, equivalent fractions with small denominators

Which equivalences can be shown with this diagram?

Solve Problems

Solve problems that include some of the other objectives

Which is greater?

$\frac{3}{4}$ of 72p   or $\frac{2}{3}$ of 75p

$\frac{3}{4}$ of 72p

Explain why $\frac{3}{8} + \frac{1}{8} = \frac{1}{2}$

Calculate

Add and subtract fractions with the same denominator

What is the difference between

$\frac{5}{11} + \frac{4}{11}$ and $\frac{6}{11} + \frac{1}{11}$? $\frac{2}{11}$

A box contains 24 apples. Three of the apples are rotten and four apples have damaged skin. The rest are in good condition. What fraction of the box of apples are in good condition?

$\frac{17}{24}$

Compare and Order

Compare and order unit fractions and fractions with the same denominators

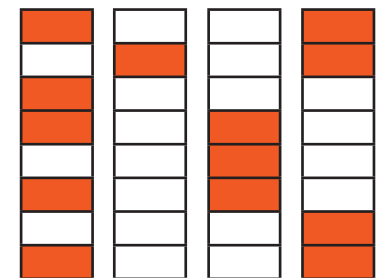Explain why $\frac{1}{4} > \frac{1}{6}$

Express the following partially shaded rectangles as fractions and order from smallest to largest:

$\frac{1}{8} \quad \frac{3}{8} \quad \frac{4}{8} \quad \frac{5}{8}$