## Year 6 Fractions

How can we progress with fractions?
Add and subtract fractions with different denominators and mixed numbers using the concept of equivalent fractions.


## Abstract

 $1 \frac{1}{2}+\frac{1}{3}=1 \frac{5}{6}$ because $1 \frac{1}{2}=\frac{3}{2}$$$
\frac{3}{2}=\frac{9}{6} \text { and } \frac{1}{3}=\frac{2}{6} \text { frac- }
$$

$$
\text { so } \frac{9}{6}+\frac{2}{6}=\frac{11}{6}=1 \frac{5}{6}
$$

## Abstract

Which is greater?

$$
\frac{2}{8}<\frac{6}{16}
$$

Ordering from smallest to largest by using equivalent fractions:

$$
\begin{gathered}
\frac{5}{12}, \frac{2}{3}, \frac{5}{6} \\
\frac{5}{12}, \frac{8}{12}, \frac{10}{12}
\end{gathered}
$$

Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.

Concrete

pairs of
tions, writ-
Pictorial
ing the answer in its simplest form.

Concrete

$$
\frac{1}{2} \text { of } \frac{3}{4}
$$

Pictorial
$\frac{1}{2}$ of $\frac{3}{4}$

Abstract

$$
\frac{1}{2} \times \frac{3}{4}=\frac{3}{8}
$$



Recall and use equivalences between simple fractions, decimals and percentages including in different contexts.

Concrete


## Pictorial

Which would you prefer $75 \%$ or $\frac{3}{8}$ of a pie?


75\%
Divide
by whole numbers.

## Abstract

John scored $\frac{40}{80}$ in his spelling test and Hannah scored 40\%. Who scored more?

John $={ }_{40}=50 \%$
Hannal|이= 40\%

One paving slab is 0.3 m long and another
is of a metre. Which is longer?


## Concrete



## Pictorial



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

Abstract

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

Keep it, change it, flip it!

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

Associate fractions with division and calculate decimal fraction equivalents.

## Concrete



## Pictorial


$\frac{3}{8}$

## Abstract

## $\frac{3}{8}$

3 'out of' 8 is the same as 3 'divided by' 8
$3 \div 8=0.375$

$$
\text { So } \frac{3}{8}=0.375
$$

