## National Curriculum Aims

- use common factors to simplify fractions; use common multiples to express fractions in the same denomination
- compare and order fractions, including fractions $>1$
- add and subtract fractions with different denominators and mixed numbers using the concept of equivalent fractions
- multiply simple pairs of proper fractions, writing the answer in its simplest form
- divide proper fractions by whole numbers

| Fraction A number Vocabulary <br> results from dividing one integer by a second integer <br> Numerator The number above the line in a fraction <br> Denominator The number below the line in a fraction <br> Equivalent An equivalent fraction is a fraction with the same <br> value as another <br> Simplest form A fraction is in simplest form when the numerator and <br> denominator cannot be any smaller <br> Improper Fraction A fraction that has a numerator greater than the <br> denominator <br> Mixed Number Fraction A whole number together with a mixed fraction <br> Proper Fraction Has a value less than 1. The numerator is smaller than <br> the denominator. <br> Cancel To cancel is to simplify it down to its lowest term by <br> dividing the numerator and denominator by the same <br> number |  |
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## Home Learning

- Practice times tables with your child on the way to and from school (times tables are key when working with fractions).
- When in the shops looking at prices ask your child what a fraction of the amount is (e.g. $1 / 2$ of $£ 5.00$ ).
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Core Knowledge and Representations

Adding Fractions (Same Denominator)

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

Subtracting Fractions (Same
Denominator

$$
\frac{3}{4}-\frac{1}{4}=\frac{3-1}{4}=\frac{2}{4}
$$

## Multiplying Fractions

$$
\frac{1}{2} \times \frac{2}{5}=\frac{1 \times 2}{2 \times 5}=\frac{21}{105}=\frac{1}{5}
$$

Core Knowledge and Representations

Adding Fractions (Mixed Denominator)

$$
\begin{aligned}
\frac{2 x}{36}+\frac{1}{6} & =\frac{2}{6}+1 / 6 \\
& =\frac{2+1}{6}=\frac{3 / 62}{52}=\frac{1}{2}
\end{aligned}
$$

## Subtracting Fractions (Same

Denominator
$\frac{1^{3}}{2^{6}}-\frac{1}{6}=\frac{3}{6}-\frac{1}{6}$

$$
=\frac{3-1}{6}=\frac{21}{53}=\frac{1}{3}
$$

Dividing Fractions
$\frac{1}{2} \div \frac{1}{6}=\frac{1}{2} \times \frac{6}{1}=\frac{1 \times 6}{2 \times 1}=\frac{6}{2}=3$

Converting Improper Fractions To Mixed Number Fractions
Example: Convert $\frac{11}{4}$ to a mixed fraction.
Divide:

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L11\div4=2 with a remainder of 3
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Write down the 2 and then write down the remainder (3) above the denominator (4).
Answer

