

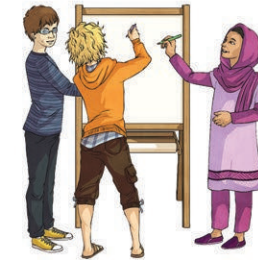
# Maths Mastery

Simplify Fractions and  
Common Denominators

## Challenge Cards

### Maths Mastery

1. Use Common Factors to Simplify Fractions  
Explain how you would use the common factors of 24 and 30 to express  $\frac{24}{30}$  in its simplest form.



### Maths Mastery

2. Convert these fractions into the simplest form; write the highest common factor with your answer:

$$\frac{14}{24}$$

$$\frac{21}{30}$$

$$\frac{25}{40}$$

$$\frac{16}{28}$$

$$\frac{24}{64}$$

$$\frac{36}{81}$$

$$\frac{36}{132}$$



Write some for a partner.



### Maths Mastery

3. Explain how to use common multiples to express two fractions that have different denominators (e.g.  $\frac{1}{4}$  and  $\frac{2}{5}$ ) as ones with the same denominator. Use your own example fractions.



4. Express the following pairs of fractions with the same denominator.

$$\frac{24}{30} \text{ and } \frac{1}{5}$$

$$\frac{3}{8} \text{ and } \frac{2}{3}$$

$$\frac{7}{10} \text{ and } \frac{3}{4}$$

$$\frac{2}{5} \text{ and } \frac{11}{12}$$

$$\frac{1}{4} \text{ and } \frac{4}{15}$$

$$\frac{3}{10} \text{ and } \frac{7}{18}$$

Write some of your own pairs for a partner to express with the same denominator.