Maths Mastery

Simplify Fractions and Common Denominators

Challenge Cards

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.



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.



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



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

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

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

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

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

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

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

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

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