To cancel a fraction divide both the numerator

and the denominator by the highest common

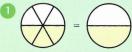
TARGET To use common factors to simplify fractions.

To simplify a fraction to its lowest terms divide both the numerator and the denominator by the highest common factor. Example

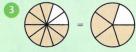
 $12(\div 4) = 3$ $\overline{20}$ (÷4) = $\overline{5}$

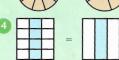
This process is called cancelling. It is shown like this: $\frac{12}{20}\frac{3}{5}$

Write the equivalent fractions shown in each diagram.









Copy and complete to simplify the fraction to its lowest terms.

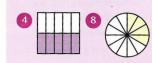
 $\frac{9}{12} \div 3 =$

Simplify the fraction shown in each diagram to its lowest terms.









Cancel each fraction to its lowest terms.

 $9\frac{8}{10}$

 $\frac{12}{18}$

 $\frac{6}{8}$

 $\frac{10}{25}$

 $\frac{8}{12}$

 $\frac{16}{20}$

 $\frac{7}{21}$

C

Cancel each fraction to its lowest terms.

 $0\frac{4}{16}$

 $2\frac{30}{100}$

12

 $\frac{6}{18}$

 $6\frac{42}{48}$

 $\frac{35}{50}$

 $2\frac{21}{35}$

 $8\frac{44}{100}$

 $9\frac{16}{24}$

 $0\frac{20}{36}$

Write >, < or = in each box.

 $\frac{12}{30}$ $\frac{3}{8}$

 $\frac{8}{32}$ $\frac{2}{10}$

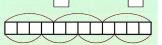
 $\frac{3}{5}$ $\frac{24}{40}$

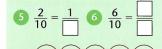
B

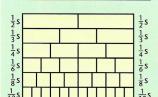
Complete each pair of fractions.

factor (HCF).









Use the fraction chart. Copy and complete.

 $2\frac{2}{12} = \frac{1}{6}$ $\frac{9}{12} = \frac{1}{4}$

 $8\frac{4}{12} = \frac{3}{3}$ 12 $\frac{3}{6} = \frac{3}{2}$

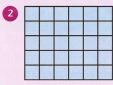
 $2\frac{2}{8} = \frac{1}{4}$ $\frac{8}{12} = \frac{1}{3}$

What fraction of 24 is:

a) 3 b) 9

TARGET To use the highest common factor to simplify fractions.

c) 8 d) 16?



What fraction of 30 is:

a) 6 b) 24 c) 5 d) 25?

Cancel each fraction into its simplest form.

 $\frac{10}{12}$

 $\frac{12}{16}$

 $\frac{75}{100}$

 $\frac{6}{10}$ $\frac{14}{20}$

 $\frac{2}{6}$ $9\frac{2}{16}$

C

 $\frac{8}{12}\frac{2}{3}$ (HCF is 4) $\frac{9}{125}\frac{3}{5}$ (HCF is 3)

Examples

1 What fraction of 20 is:

a) 2

c) 5

c) 10

b) 14 d) 15?

2 What fraction of 80 is:

a) 8 b) 4

d) 50?

3 What fraction of 45 is:

a) 9 b) 5

c) 27 d) 20?

4 What fraction of £1 is:

a) 5p

c) 20p

b) 95p d) 80p?

5 What fraction of 1 km

a) 50 m

c) 25 m **b)** 650 m **d)** 175 m?

6 Julia has £48. She spends £18. What fraction of her money is left?

A bottle of lemonade holds 1 litre. 350 ml is used. What fraction is left?

8 A bag holds 75 kg of potatoes. 45 kg is used. What fraction is left?