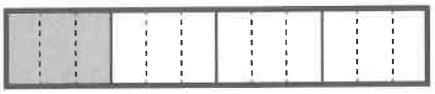
→ Textbook 6A p124

# Simplifying fractions 1

**1** Write in the missing numbers to simplify the fractions.

a)



$\div 3$

$\frac{3}{12} = \frac{1}{\square}$

$\div 3$

b)

$\div 7$

$\frac{35}{42} = \frac{\square}{\square}$

$\div \square$

c)

$\div \square$

$\frac{25}{35} = \frac{\square}{\square}$

$\div \square$

**2** Simplify these fractions.

a) $\frac{14}{24} = \frac{\square}{\square}$

b) $\frac{6}{15} = \frac{\square}{\square}$

c) $\frac{20}{45} = \frac{\square}{\square}$

d) $\frac{12}{16} = \frac{\square}{\square}$

e) $\frac{72}{\square} = \frac{9}{10}$

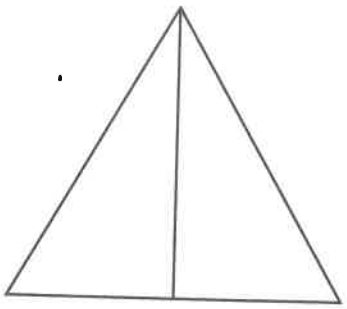
f) $\frac{\square}{24} = \frac{3}{4}$

**3** Write in the missing numbers.

$\frac{90}{120} = \frac{\square}{60} = \frac{15}{\square} = \frac{\square}{4}$

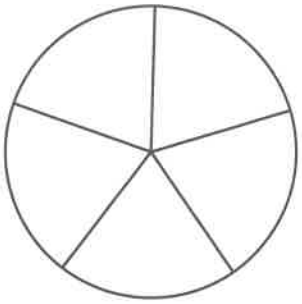
**4** Shade in the shapes to show the fractions.

a)



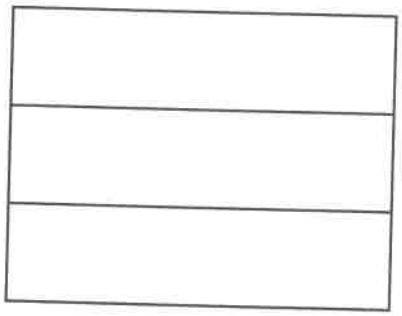
$\frac{10}{20}$

c)



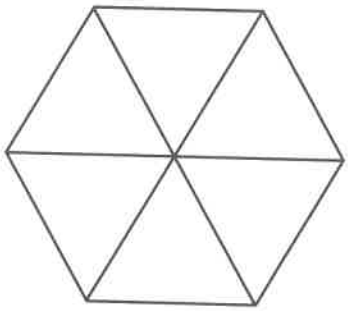
$\frac{20}{25}$

b)



$\frac{6}{9}$

d)



$\frac{45}{54}$

**5** Ebo thinks $\frac{4}{6}$ in its simplest form is $\frac{1}{1.5}$.

Is Ebo correct? Explain how you know.

**6** Circle the fraction that is **not** equivalent to the other fractions.

a) $\frac{5}{15}$ $\frac{15}{45}$ $\frac{10}{20}$ $\frac{20}{60}$

b) $\frac{12}{18}$ $\frac{120}{180}$ $\frac{18}{24}$ $\frac{24}{36}$

**7** a) Which fraction can be simplified to $\frac{5}{8}$ and has a denominator of 40?

$\frac{\square}{\square}$

b) Which fraction can be simplified to $\frac{5}{8}$ and has a numerator of 40?

$\frac{\square}{\square}$

**8** Calculate the missing values, simplifying if necessary.

CHALLENGE

a) $\frac{2+\square}{3+12} = \frac{2}{3}$

b) $\frac{2+8}{3+\square} = \frac{2}{5}$

c) $\frac{2+14}{3+17} = \frac{\square}{\square}$

d) $\frac{5+\square}{3+\square} = \frac{3}{4}$

## Reflect

Explain how to simplify the fraction $\frac{12}{18}$.