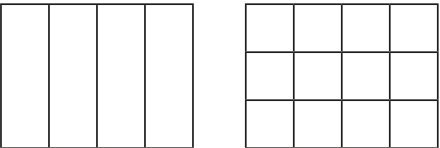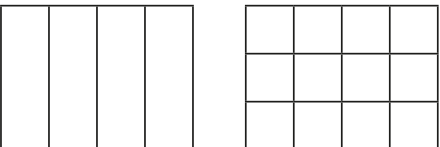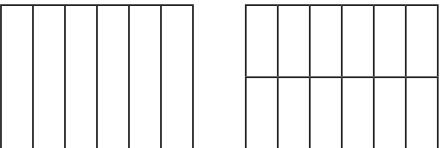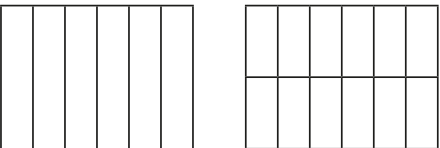# Equivalent fractions

1 Shade the shapes to show the equivalent fractions.

a)

$\frac{1}{4} = \frac{\square}{12}$

b)

$\frac{3}{4} = \frac{\square}{12}$
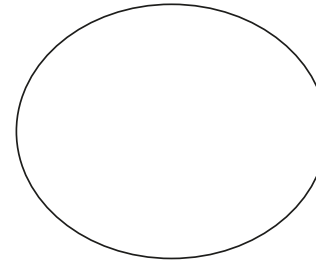
c)

$\frac{1}{6} = \frac{\square}{\square}$

d)

$\frac{5}{6} = \frac{\square}{\square}$

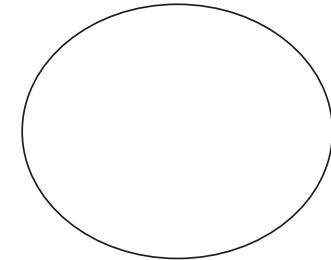**2** Draw two rectangles to show that $\frac{1}{3} = \frac{4}{12}$

3 a) Sort the fractions into the groups.

Equivalent to $\frac{1}{4}$

Equivalent to $\frac{1}{3}$

$\frac{5}{15}$ $\frac{2}{6}$ $\frac{3}{12}$ $\frac{6}{24}$ $\frac{8}{24}$ $\frac{5}{20}$ $\frac{4}{12}$ $\frac{2}{8}$

b) Write one more fraction in each group.

4 Complete the equivalent fractions.

a) $\frac{1}{7} = \frac{\square}{14}$

b) $\frac{5}{7} = \frac{\square}{14}$

c) $\frac{7}{8} = \frac{14}{\square}$

d) $\frac{3}{4} = \frac{6}{\square}$

e) $\frac{3}{4} = \frac{12}{\square}$

f) $\frac{3}{4} = \frac{\square}{12}$

g) $\frac{2}{\square} = \frac{10}{15}$

h) $\frac{2}{\square} = \frac{10}{25}$

i) $\frac{2}{7} = \frac{10}{\square}$

j) Describe the pattern in part g), h) and i) to a partner.

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5 Find three ways to make the fractions equivalent.

a) $\dfrac{1}{\boxed{}} = \dfrac{7}{\boxed{}}$ b) $\dfrac{7}{\boxed{}} = \dfrac{14}{\boxed{}}$ c) $\dfrac{\boxed{}}{7} = \dfrac{\boxed{}}{14}$

$\dfrac{1}{\boxed{}} = \dfrac{7}{\boxed{}}$ $\dfrac{7}{\boxed{}} = \dfrac{14}{\boxed{}}$ $\dfrac{\boxed{}}{7} = \dfrac{\boxed{}}{14}$

$\dfrac{1}{\boxed{}} = \dfrac{7}{\boxed{}}$ $\dfrac{7}{\boxed{}} = \dfrac{14}{\boxed{}}$ $\dfrac{\boxed{}}{7} = \dfrac{\boxed{}}{14}$

6 Ron is finding equivalent fractions to $\dfrac{1}{4}$

$\dfrac{1}{4}$ is equivalent to $\dfrac{5}{8}$ and $\dfrac{9}{12}$

Do you agree with Ron? _____

Draw a diagram to support your answer.

Compare answers with a partner.

7 Here are some equivalent fractions.

Find the values of A, B and C.

$\dfrac{A}{9}$ $\dfrac{3}{B}$ $\dfrac{2}{18}$ $\dfrac{C}{90}$

A = $\boxed{}$ B = $\boxed{}$ C = $\boxed{}$

8 Here are three fraction cards.

All the fractions are equivalent.

$\dfrac{3}{A}$ $\dfrac{B}{14}$ $\dfrac{12}{C}$

A + B = 13

Work out the value of C.

C = $\boxed{}$

9 $\dfrac{1}{5} = \dfrac{3}{1 + \bullet}$

Find the value of $\bullet$

$\bullet$ = $\boxed{}$