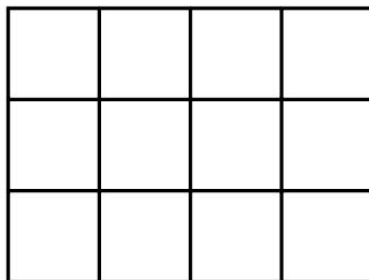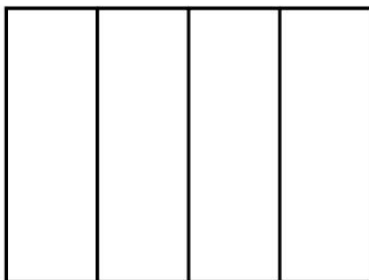# Equivalent fractions

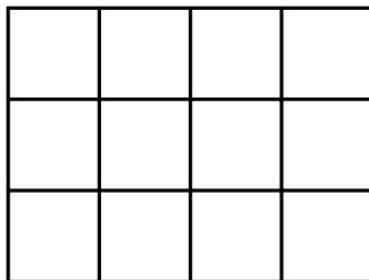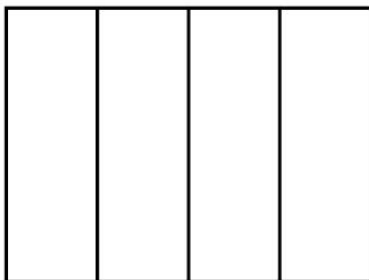**1** Shade the shapes to show the equivalent fractions.

a)

$\dfrac{1}{4} = \dfrac{\boxed{}}{12}$
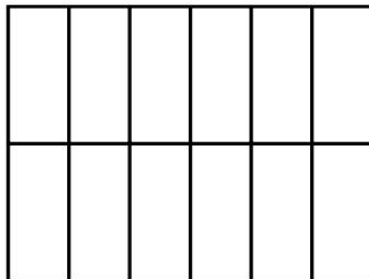
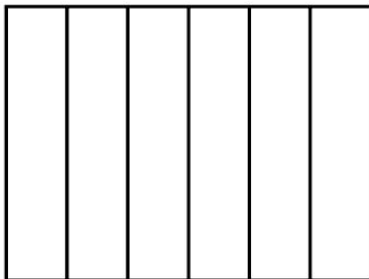**b)**

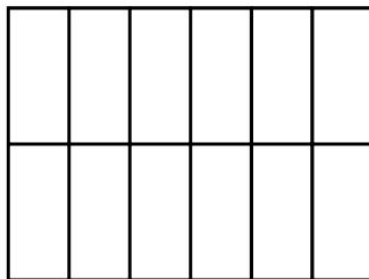$\dfrac{3}{4} = \dfrac{\boxed{}}{12}$

1 **c)**

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

d)

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

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

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) $\dfrac{1}{7} = \dfrac{\boxed{}}{14}$
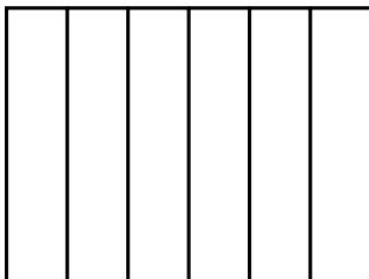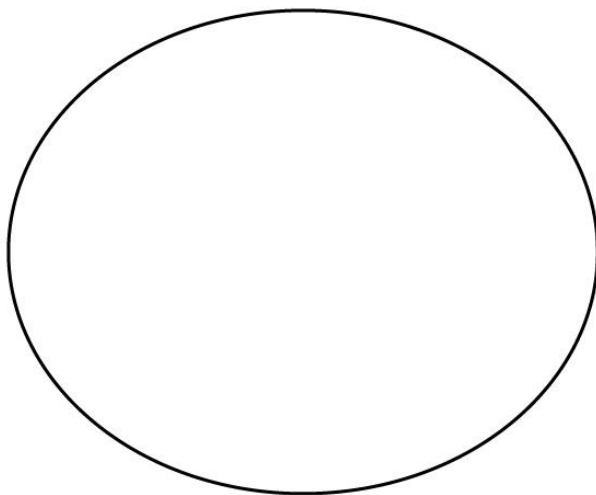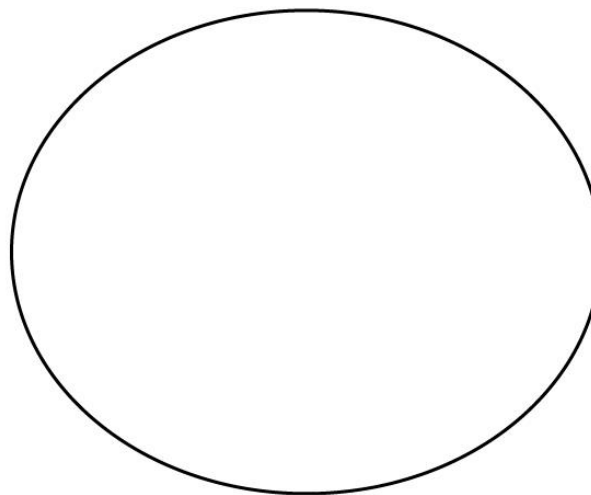
d) $\dfrac{3}{4} = \dfrac{6}{\boxed{}}$

g) $\dfrac{2}{\boxed{}} = \dfrac{10}{15}$

b) $\dfrac{5}{7} = \dfrac{\boxed{}}{14}$

e) $\dfrac{3}{4} = \dfrac{12}{\boxed{}}$

h) $\dfrac{2}{\boxed{}} = \dfrac{10}{25}$

c) $\dfrac{7}{8} = \dfrac{14}{\boxed{}}$

f) $\dfrac{3}{4} = \dfrac{\boxed{}}{12}$

i) $\dfrac{2}{7} = \dfrac{10}{\boxed{}}$

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

5 Find three ways to make the fractions equivalent.

a) $\dfrac{1}{\boxed{}} = \dfrac{7}{\boxed{}}$

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

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

b) $\dfrac{7}{\boxed{}} = \dfrac{14}{\boxed{}}$

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

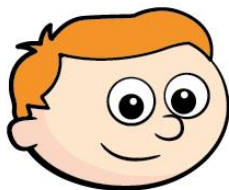$\dfrac{7}{\boxed{}} = \dfrac{14}{\boxed{}}$

c) $\dfrac{\boxed{}}{7} = \dfrac{\boxed{}}{14}$

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

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

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

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

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.

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

A = ☐   B = ☐   C = ☐

8   Here are three fraction cards.

All the fractions are equivalent.

$$\frac{3}{A} \qquad \frac{B}{14} \qquad \frac{12}{C}$$

A + B = 13

Work out the value of C.

C = ☐

9

$$\frac{1}{5} = \frac{3}{1 + \bullet}$$

Find the value of 🟢

🟢 = ☐