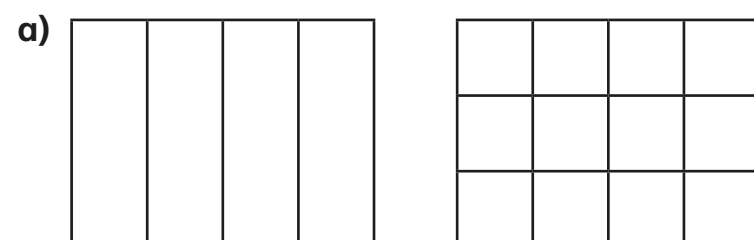


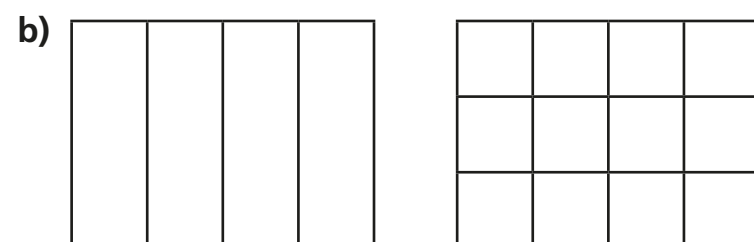
# Equivalent fractions



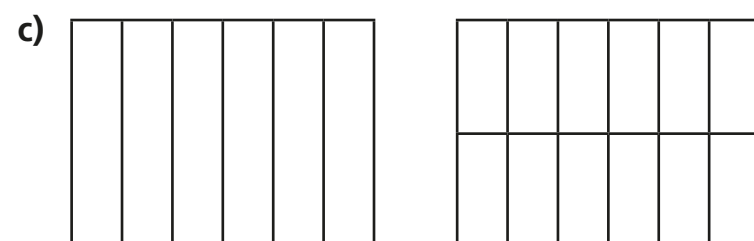
1 Shade the shapes to show the equivalent fractions.



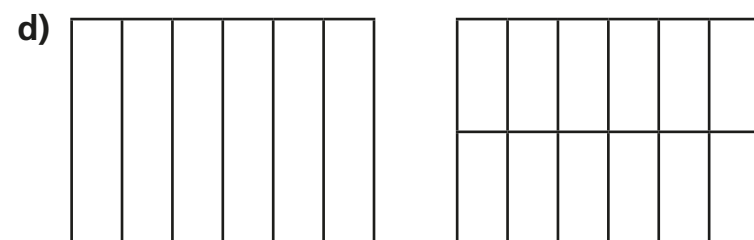
$$\frac{1}{4} = \frac{\boxed{\phantom{000}}}{12}$$



$$\frac{3}{4} = \frac{\boxed{\phantom{000}}}{12}$$



$$\frac{1}{6} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$$

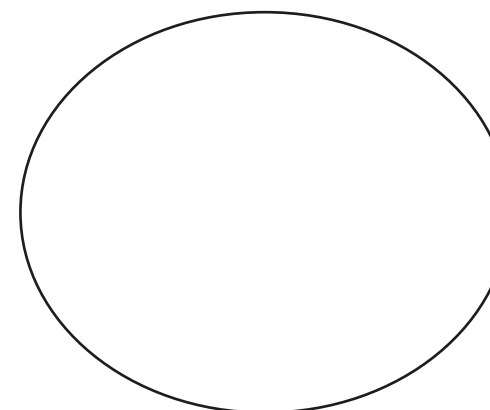


$$\frac{5}{6} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$$

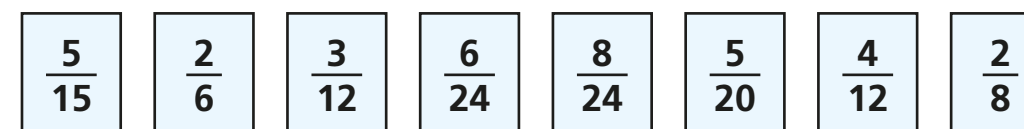
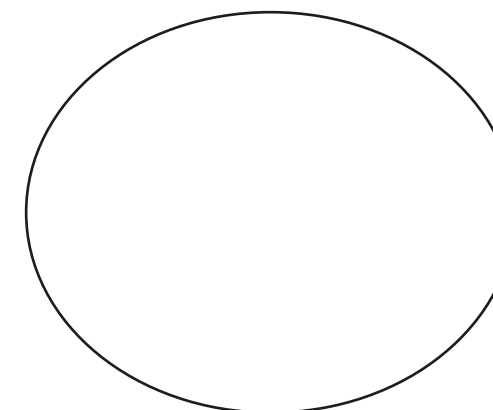
2 Draw two rectangles to show that  $\frac{1}{3} = \frac{4}{12}$

3 a) Sort the fractions into the groups.

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



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



b) Write one more fraction in each group.

4 Complete the equivalent fractions.

a)  $\frac{1}{7} = \frac{\boxed{\phantom{000}}}{14}$

d)  $\frac{3}{4} = \frac{6}{\boxed{\phantom{000}}}$

g)  $\frac{2}{\boxed{\phantom{000}}} = \frac{10}{15}$

b)  $\frac{5}{7} = \frac{\boxed{\phantom{000}}}{14}$

e)  $\frac{3}{4} = \frac{12}{\boxed{\phantom{000}}}$

h)  $\frac{2}{\boxed{\phantom{000}}} = \frac{10}{25}$

c)  $\frac{7}{8} = \frac{14}{\boxed{\phantom{000}}}$

f)  $\frac{3}{4} = \frac{\boxed{\phantom{000}}}{12}$

i)  $\frac{2}{7} = \frac{10}{\boxed{\phantom{000}}}$

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



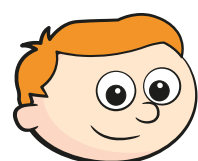
- 5 Find three ways to make the fractions equivalent.

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

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

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

- 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.

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

A =  $\square$

B =  $\square$

C =  $\square$

- 8 Here are three fraction cards.

All the fractions are equivalent.

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

A + B = 13

Work out the value of C.

C =  $\square$

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

Find the value of  $\bullet$

$\bullet = \square$