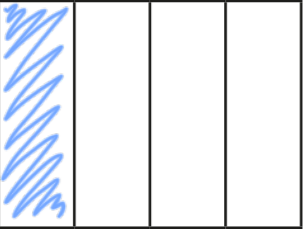
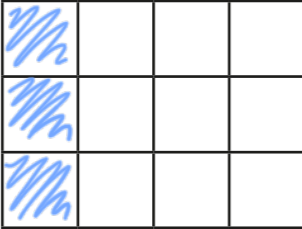
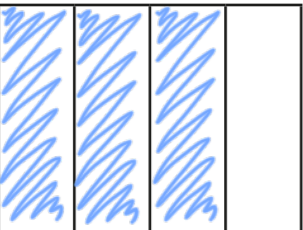
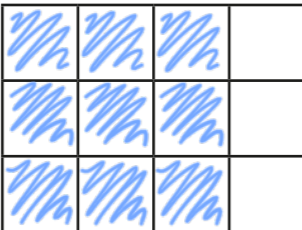


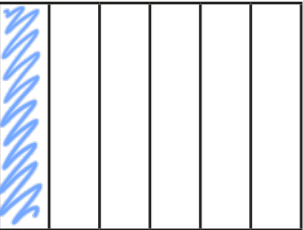
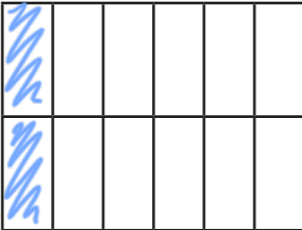
# Equivalent fractions

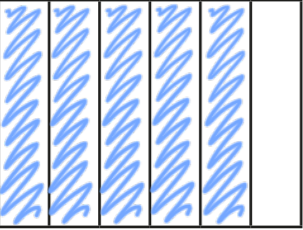
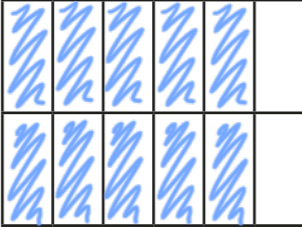


1 Shade the shapes to show the equivalent fractions.


a)    $\frac{1}{4} = \frac{\boxed{3}}{12}$

b)    $\frac{3}{4} = \frac{\boxed{9}}{12}$

c)    $\frac{1}{6} = \frac{\boxed{2}}{\boxed{12}}$

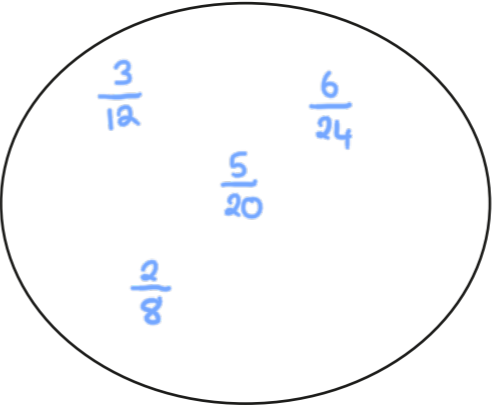
d)    $\frac{5}{6} = \frac{\boxed{10}}{\boxed{12}}$

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

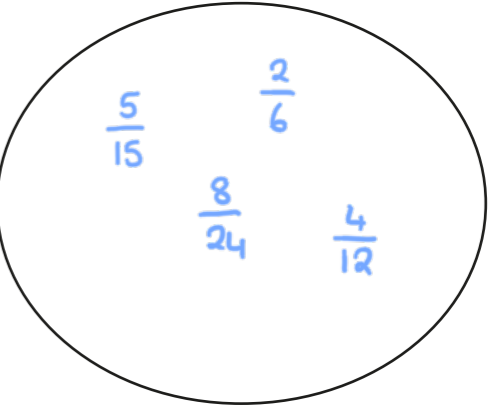


3 a) Sort the fractions into the groups.

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)  $\frac{1}{7} = \frac{\boxed{2}}{14}$

d)  $\frac{3}{4} = \frac{6}{\boxed{8}}$

g)  $\frac{2}{\boxed{3}} = \frac{10}{15}$

b)  $\frac{5}{7} = \frac{\boxed{10}}{14}$

e)  $\frac{3}{4} = \frac{12}{\boxed{16}}$

h)  $\frac{2}{\boxed{5}} = \frac{10}{25}$

c)  $\frac{7}{8} = \frac{14}{\boxed{16}}$

f)  $\frac{3}{4} = \frac{\boxed{9}}{12}$

i)  $\frac{2}{7} = \frac{10}{\boxed{35}}$

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





5 Find three ways to make the fractions equivalent.

e.g.

a)  $\frac{1}{2} = \frac{7}{14}$

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

c)  $\frac{1}{7} = \frac{2}{14}$

$\frac{1}{8} = \frac{7}{56}$

$\frac{7}{1} = \frac{14}{2}$

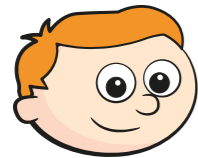
$\frac{5}{7} = \frac{10}{14}$

$\frac{1}{100} = \frac{7}{700}$

$\frac{7}{10} = \frac{14}{20}$

$\frac{21}{7} = \frac{42}{14}$

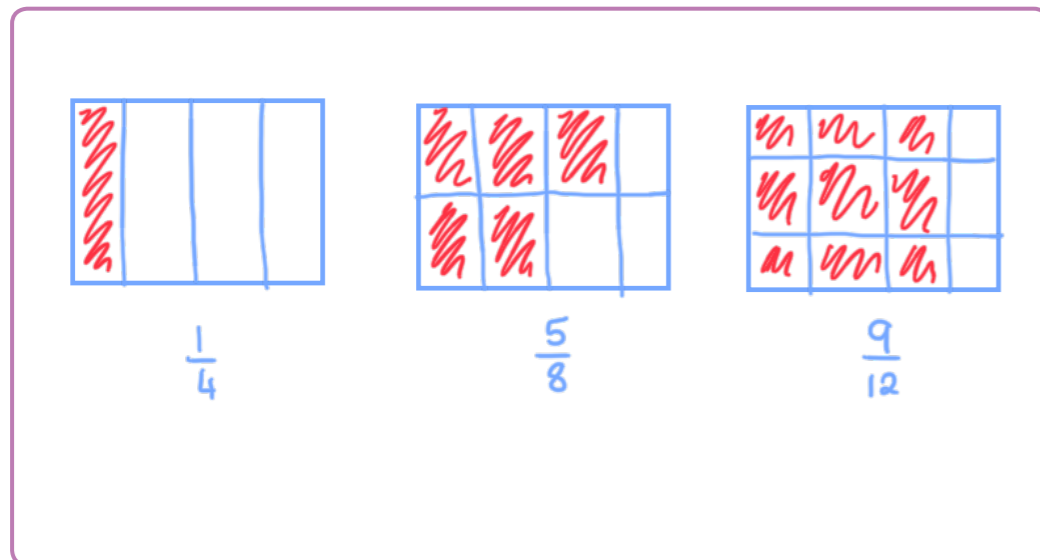
6 Ron is finding equivalent fractions to  $\frac{1}{4}$



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

Do you agree with Ron? No

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 =  $\boxed{1}$

B =  $\boxed{27}$

C =  $\boxed{10}$

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 = 24  
or  
C =  $\boxed{28}$

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

Find the value of  $\bullet$

$\bullet = \boxed{14}$

