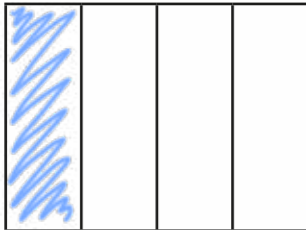
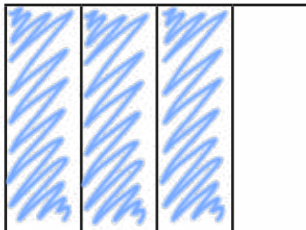
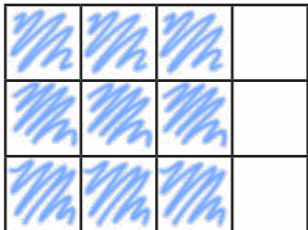


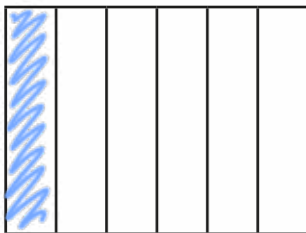
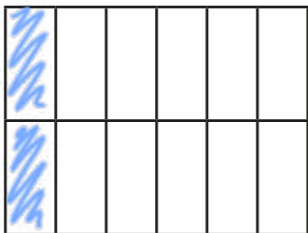
# Equivalent fractions

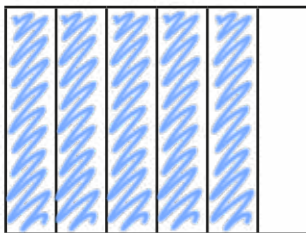
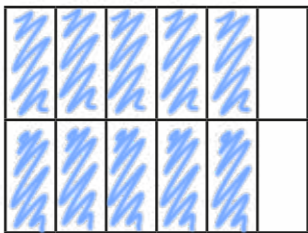


1 Shade the shapes to show the equivalent fractions.


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

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

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

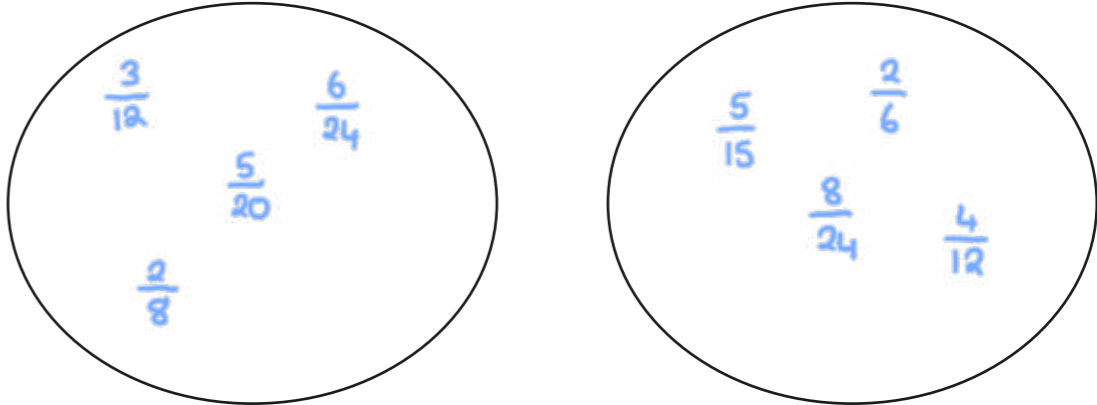
d)    $\frac{5}{6} = \frac{\boxed{10}}{\boxed{12}}$

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.

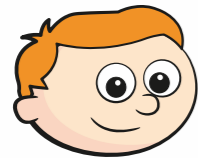
e.g.

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

$\frac{1}{8} = \frac{7}{56}$        $\frac{7}{1} = \frac{14}{2}$        $\frac{5}{7} = \frac{10}{14}$

$\frac{1}{100} = \frac{7}{700}$        $\frac{7}{10} = \frac{14}{20}$        $\frac{21}{7} = \frac{42}{14}$

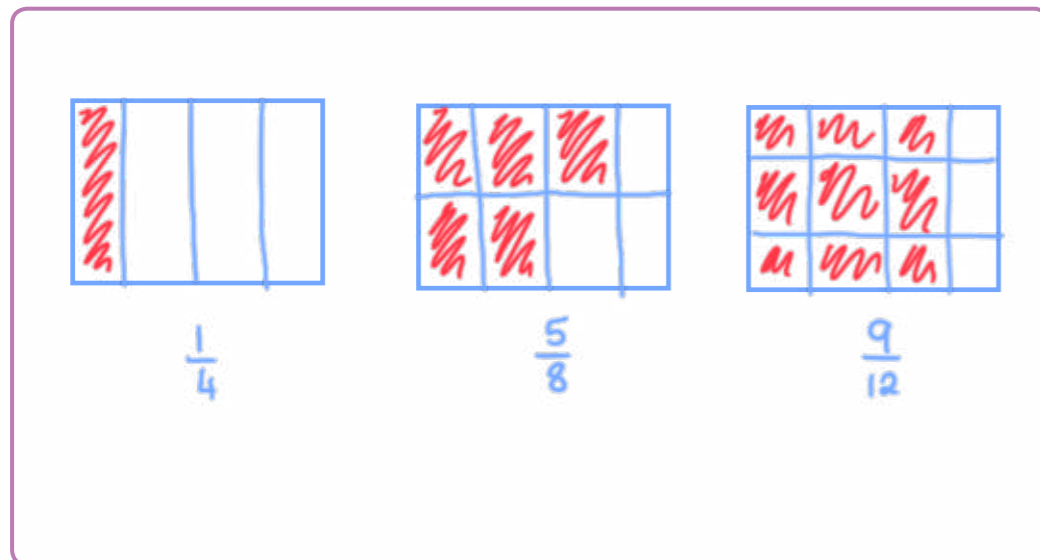
6 Ron is finding equivalent fractions to  $\frac{1}{4}$



$\frac{1}{4}$  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 =  $\boxed{28}$

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

Find the value of  $\bullet$

$\bullet = \boxed{14}$

