

## Equivalent fractions

### Equivalent Fractions.

Watch the video: 'Equivalent Fractions'

You will need to click on the link below to access the video.

<https://whiterosemaths.com/homelearning/year-6/week-8-number-fractions/>

Once you have watched the video, please choose your starting question and then complete as many as you can in 40 minutes.

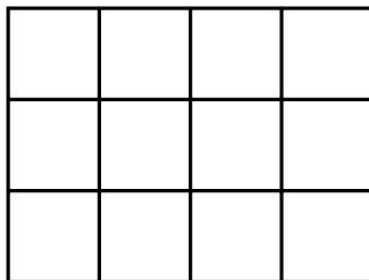
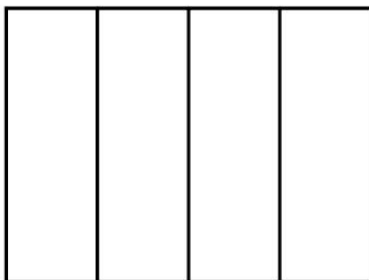


# Equivalent fractions



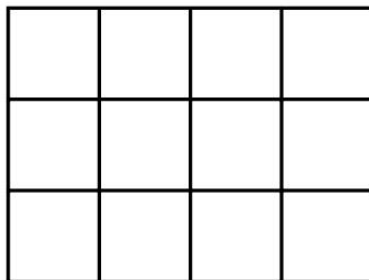
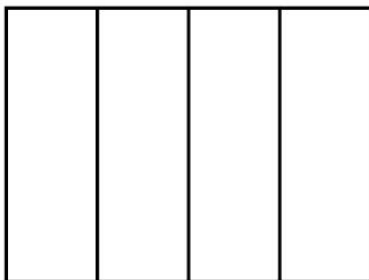
1 Shade the shapes to show the equivalent fractions.

a)



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

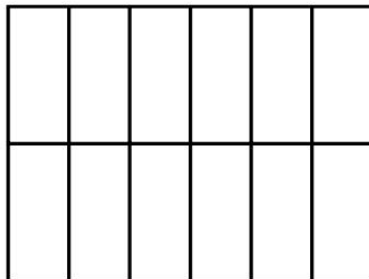
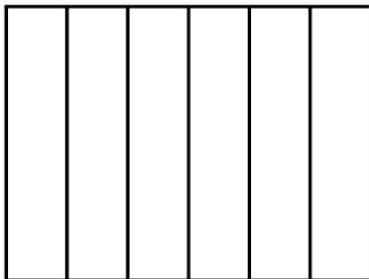
b)



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

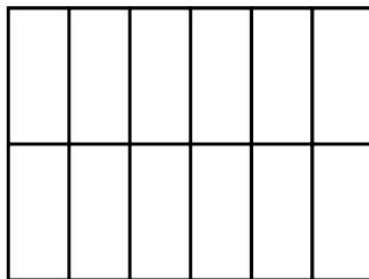
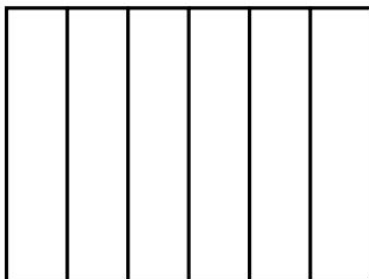
1

c)



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

d)



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

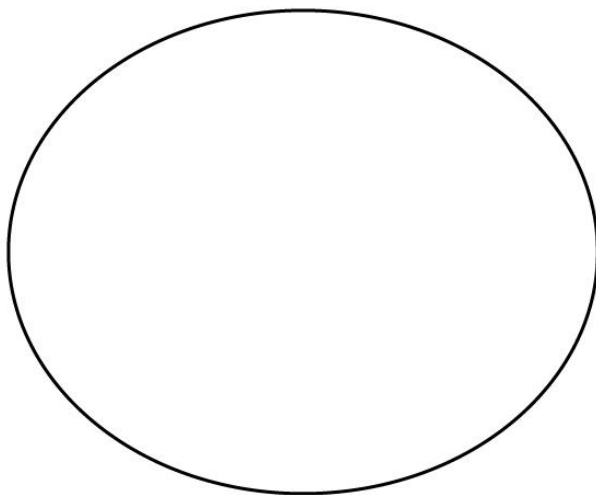


2 Draw two rectangles to show that  $\frac{1}{3} = \frac{4}{12}$

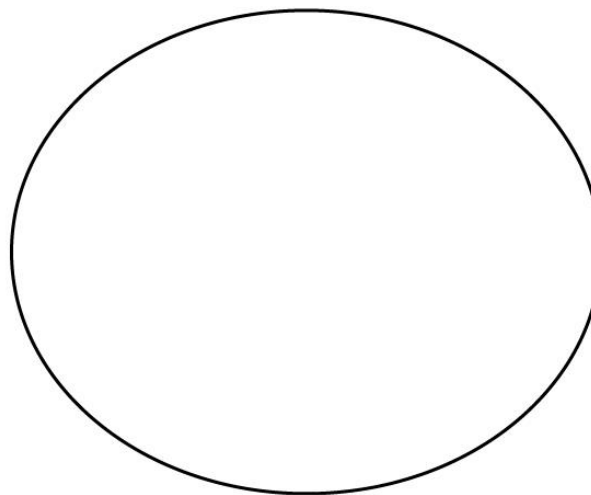
3

a) Sort the fractions into the groups.

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



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



$$\frac{5}{15}$$

$$\frac{2}{6}$$

$$\frac{3}{12}$$

$$\frac{6}{24}$$

$$\frac{8}{24}$$

$$\frac{5}{20}$$

$$\frac{4}{12}$$

$$\frac{2}{8}$$

b) Write one more fraction in each group.

4

Complete the equivalent fractions.

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

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)  $\frac{1}{\boxed{\phantom{00}}} = \frac{7}{\boxed{\phantom{00}}}$

$\frac{1}{\boxed{\phantom{00}}} = \frac{7}{\boxed{\phantom{00}}}$

$\frac{1}{\boxed{\phantom{00}}} = \frac{7}{\boxed{\phantom{00}}}$

b)  $\frac{7}{\boxed{\phantom{00}}} = \frac{14}{\boxed{\phantom{00}}}$

$\frac{7}{\boxed{\phantom{00}}} = \frac{14}{\boxed{\phantom{00}}}$

$\frac{7}{\boxed{\phantom{00}}} = \frac{14}{\boxed{\phantom{00}}}$

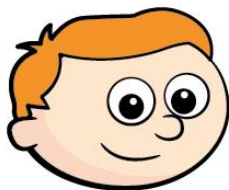
c)  $\frac{\boxed{\phantom{00}}}{7} = \frac{\boxed{\phantom{00}}}{14}$

$\frac{\boxed{\phantom{00}}}{7} = \frac{\boxed{\phantom{00}}}{14}$

$\frac{\boxed{\phantom{00}}}{7} = \frac{\boxed{\phantom{00}}}{14}$

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.

$$\frac{A}{9}$$

$$\frac{3}{B}$$

$$\frac{2}{18}$$

$$\frac{C}{90}$$

$A = \boxed{\phantom{00}}$

$B = \boxed{\phantom{00}}$

$C = \boxed{\phantom{00}}$



8

Here are three fraction cards.

All the fractions are equivalent.

$\frac{3}{A}$	$\frac{B}{14}$	$\frac{12}{C}$
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$$A + B = 13$$

Work out the value of C.

$$C = \boxed{\phantom{000}}$$



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

Find the value of  $\bullet$

$\bullet = \boxed{\phantom{000}}$