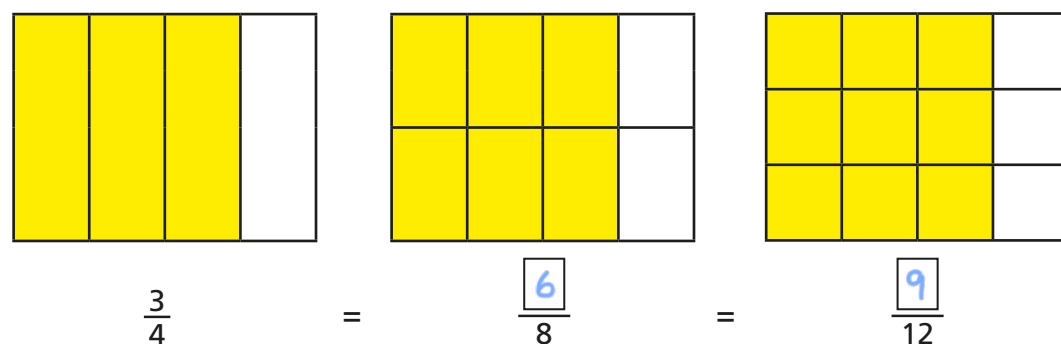


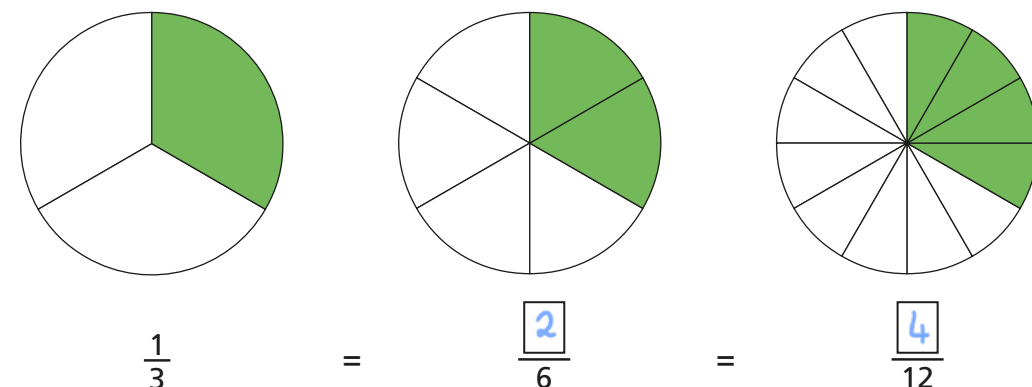
# Identify and use simple equivalent fractions

1 Use the diagrams to work out equivalent fractions.

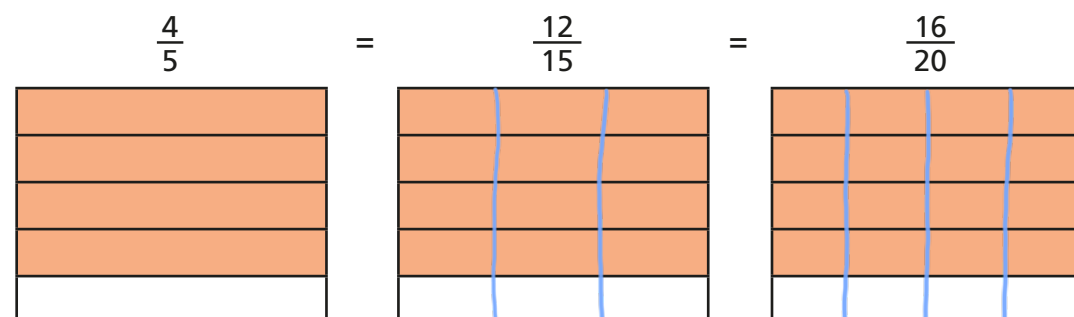
a)



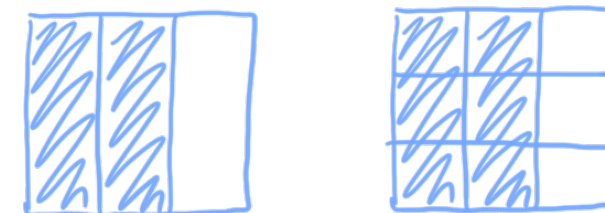
b)



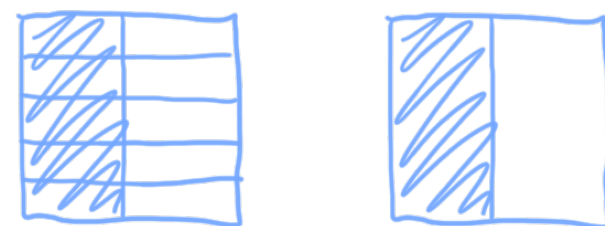
2 Divide the shape to show the equivalent fractions.



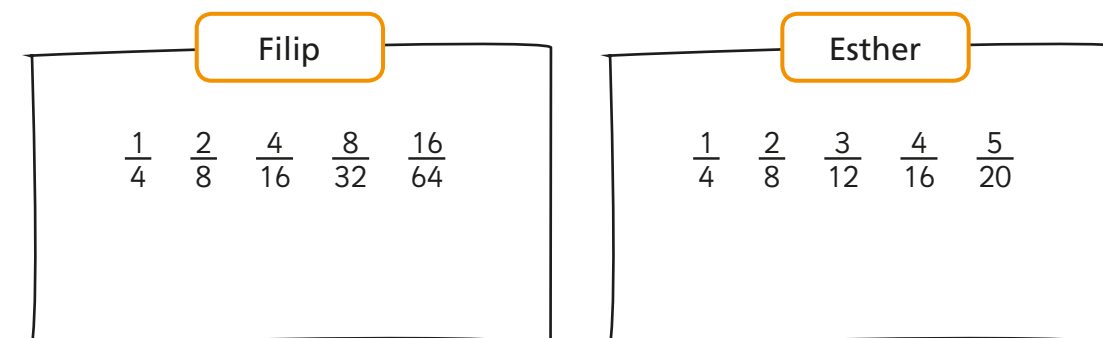
3 a) Use a drawing to show that  $\frac{2}{3}$  is equivalent to  $\frac{6}{9}$



b) Use a diagram to show that  $\frac{5}{10} = \frac{1}{2}$



4 Filip and Esther are writing fractions equivalent to  $\frac{1}{4}$



a) Explain the method that Filip has used to find equivalent fractions.

Filip has doubled the numerator and denominator each time.

b) Explain the method that Esther has used find equivalent fractions.

Esther has multiplied the numerator and denominator of  $\frac{1}{4}$  by consecutive numbers (2, 3, 4, 5)

c) Write two more fractions for each method.

- 5 a) All these fractions are equivalent to  $\frac{2}{5}$

Complete the fractions.

$$\frac{2}{5} = \frac{4}{10} = \frac{6}{15} = \frac{8}{20} = \frac{10}{25} = \frac{12}{30}$$

- b) Discuss with a partner how many fractions are equivalent to  $\frac{2}{5}$

- c) Write five fractions that are equivalent to  $\frac{60}{70}$

Show your method.

Various answers. E.g.

$$\frac{6}{7}$$

$$\frac{30}{35}$$

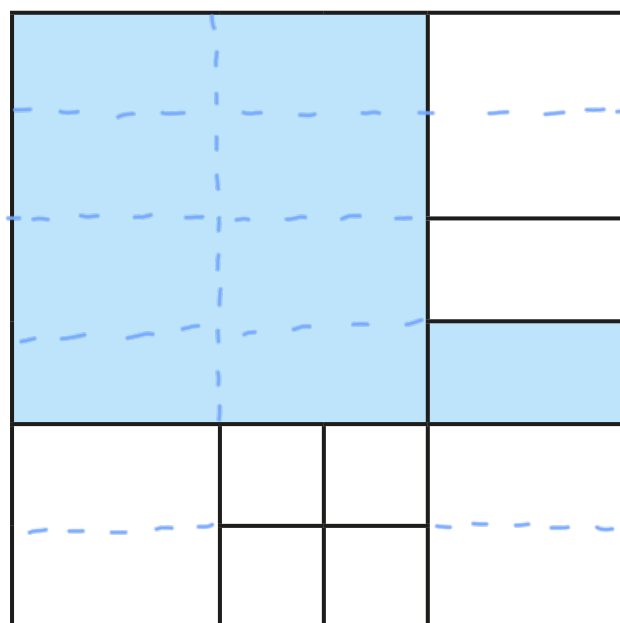
$$\frac{600}{700}$$

$$\frac{12}{14}$$

$$\frac{120}{140}$$

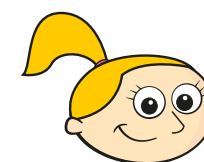
- 6 A shape is made up of squares and rectangles.

Show that  $\frac{1}{2}$  of the shape is shaded.



$$\frac{9}{18} = \frac{1}{2}$$

- 7 Eva, Jack and Dora have some counters.



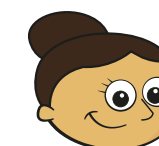
Eva

18 counters



Jack

36 counters



Dora

48 counters

Eva gives 12 counters to her teacher.

The rest of the children give the same fraction of their counters to their teacher.

How many counters do Jack and Dora each give their teacher?

Jack gives 24 counters.

Dora gives 32 counters.

- 8 Find the missing numbers to complete the comparisons.

$$\frac{A}{8} < \frac{15}{25} < \frac{B}{32}$$

What could each missing number be? What numbers would not work?

$A \leq 4$  and  $B \geq 20$  are possible values.

$A > 4$  and/or  $B < 20$  would not work.