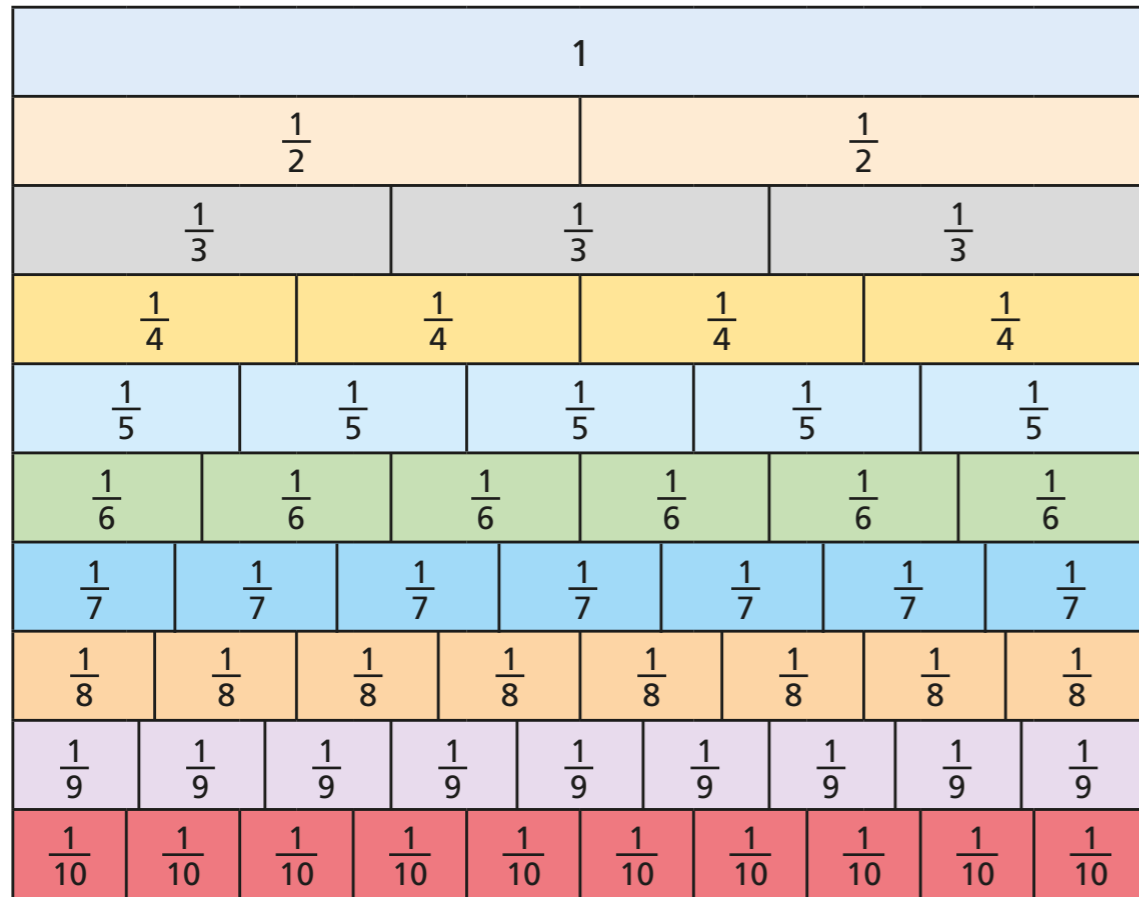


# Understand and use equivalent fractions

1 Use the fraction wall to complete the equivalent fractions.



a)  $\frac{1}{2} = \frac{\square}{10}$       c)  $\frac{2}{3} = \frac{\square}{9}$       e)  $\frac{8}{10} = \frac{\square}{5}$

b)  $\frac{1}{5} = \frac{\square}{10}$       d)  $\frac{3}{4} = \frac{\square}{8}$

f) Write three fractions equivalent to  $\frac{1}{2}$

g) What do you notice about the relationship between the numerator and the denominator when a fraction is equivalent to one half?



2 Write = or  $\neq$  to show whether the fractions are equivalent or not.

a)  $\frac{2}{5} \bigcirc \frac{4}{10}$

b)  $\frac{4}{5} \bigcirc \frac{4}{10}$

$\frac{2}{5} \bigcirc \frac{5}{2}$

$\frac{4}{5} \bigcirc \frac{40}{50}$

$\frac{2}{5} \bigcirc \frac{4}{5}$

$\frac{4}{5} \bigcirc \frac{41}{51}$

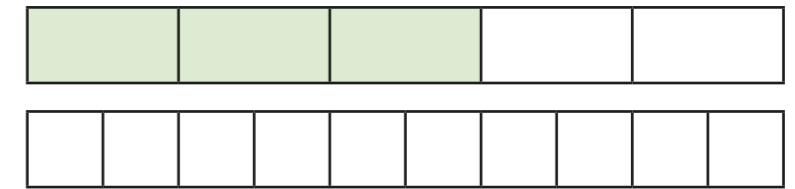
$\frac{2}{5} \bigcirc \frac{20}{40}$

$\frac{4}{5} \bigcirc \frac{44}{55}$

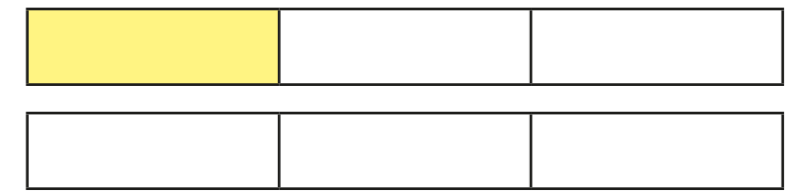
3 Complete the bar models to show equivalent fractions.

You may have to split the bars up yourself.

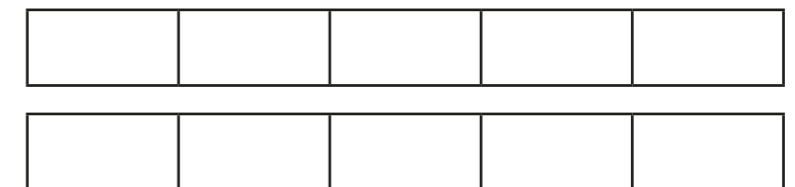
a)  $\frac{3}{5} = \frac{6}{10}$



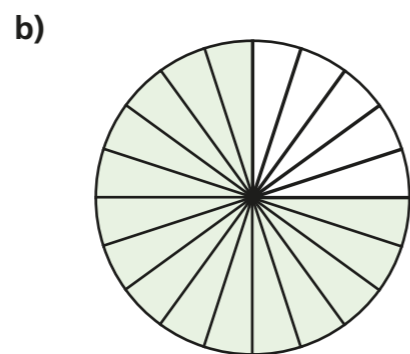
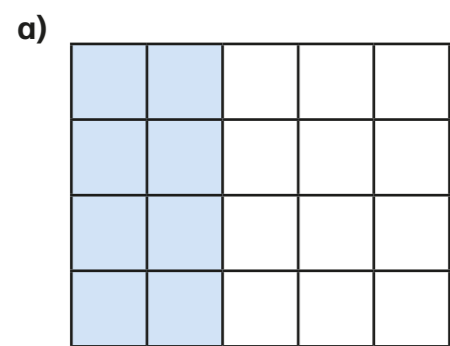
b)  $\frac{1}{3} = \frac{3}{9}$



c)  $\frac{4}{5} = \frac{12}{15}$



4 What equivalent fractions can you see in the diagrams?



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\_\_\_\_\_

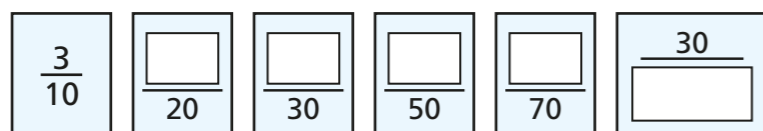
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Compare answers with a partner.  
Did you get the same fractions?

5 All these fractions are equivalent.

Work out the missing numbers.



6 Write five fractions that are equivalent to  $\frac{36}{48}$

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\_\_\_\_\_

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\_\_\_\_\_

7 Complete the equivalent fractions.

a)  $\frac{2}{3} = \frac{8}{\square}$

e)  $\frac{3}{4} = \frac{\square}{20}$

i)  $\frac{20}{8} = \frac{\square}{2}$

b)  $\frac{2}{9} = \frac{\square}{18}$

f)  $\frac{7}{3} = \frac{49}{\square}$

j)  $\frac{32}{20} = \frac{8}{\square}$

c)  $\frac{15}{\square} = \frac{3}{8}$

g)  $\frac{22}{\square} = \frac{2}{5}$

k)  $\frac{9}{\square} = \frac{1}{5}$

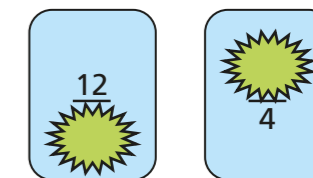
d)  $\frac{12}{24} = \frac{6}{\square}$

h)  $\frac{12}{30} = \frac{14}{\square} = \frac{\square}{5}$

8 Here are two fraction cards.

What could the missing numbers be?

Give six possible answers.



$\frac{12}{\square} = \frac{\square}{4}$

$\frac{12}{\square} = \frac{\square}{4}$

$\frac{12}{\square} = \frac{\square}{4}$

$\frac{12}{\square} = \frac{\square}{4}$

$\frac{12}{\square} = \frac{\square}{4}$

$\frac{12}{\square} = \frac{\square}{4}$