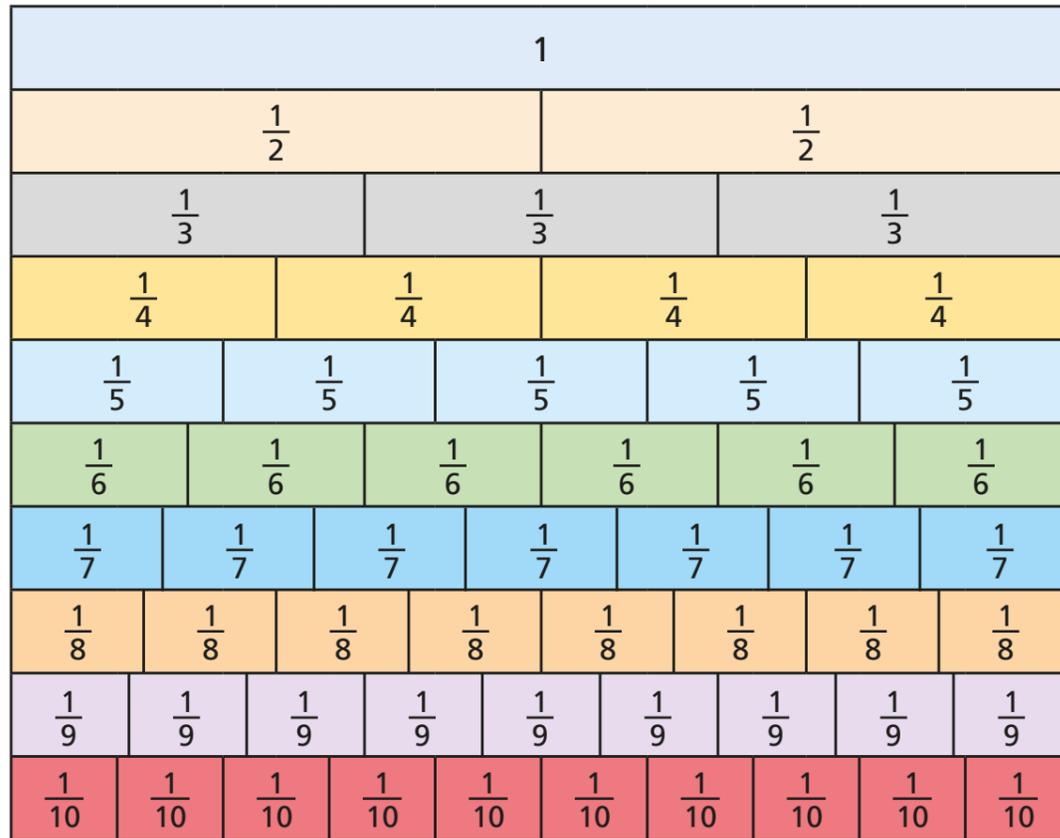


Understand and use equivalent fractions

1 Use the fraction wall to complete the equivalent fractions.



a) $\frac{1}{2} = \frac{\boxed{5}}{10}$ c) $\frac{2}{3} = \frac{\boxed{6}}{9}$ e) $\frac{8}{10} = \frac{\boxed{4}}{5}$

b) $\frac{1}{5} = \frac{\boxed{2}}{10}$ d) $\frac{3}{4} = \frac{\boxed{6}}{8}$

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

e.g. $\frac{\boxed{7}}{\boxed{14}}$ $\frac{\boxed{19}}{\boxed{38}}$ $\frac{\boxed{20}}{\boxed{40}}$

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) $\frac{2}{5} \text{ () } \frac{4}{10}$

b) $\frac{4}{5} \text{ () } \frac{4}{10}$

$\frac{2}{5} \text{ () } \frac{5}{2}$

$\frac{4}{5} \text{ () } \frac{40}{50}$

$\frac{2}{5} \text{ () } \frac{4}{5}$

$\frac{4}{5} \text{ () } \frac{41}{51}$

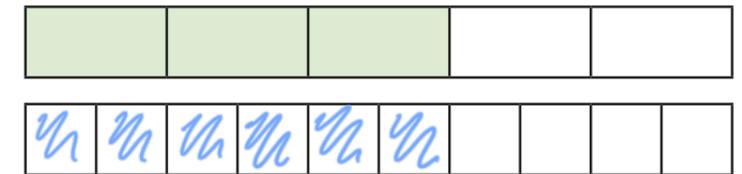
$\frac{2}{5} \text{ () } \frac{20}{40}$

$\frac{4}{5} \text{ () } \frac{44}{55}$

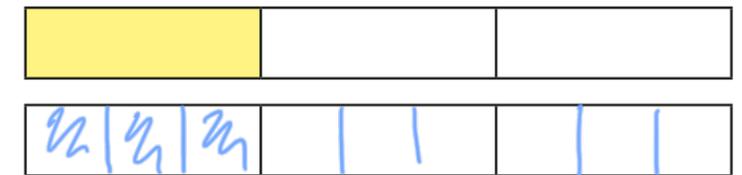
3 Complete the bar models to show equivalent fractions.

You may have to split the bars up yourself.

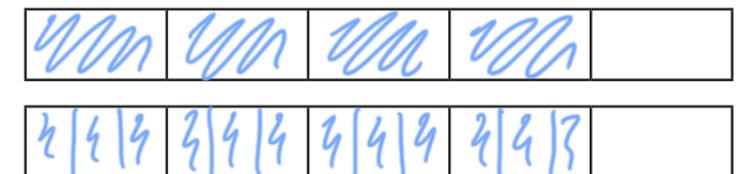
a) $\frac{3}{5} = \frac{6}{10}$



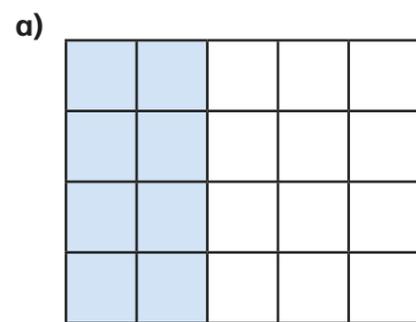
b) $\frac{1}{3} = \frac{3}{9}$



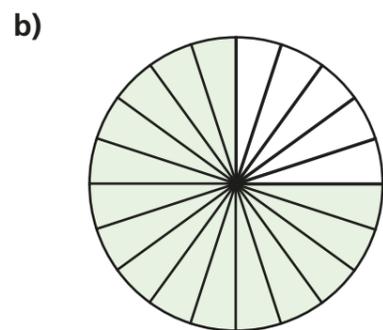
c) $\frac{4}{5} = \frac{12}{15}$



4 What equivalent fractions can you see in the diagrams?



Various answers



Various answers

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 $\frac{36}{48}$

e.g.



7 Complete the equivalent fractions.

a) $\frac{2}{3} = \frac{8}{12}$

e) $\frac{3}{4} = \frac{15}{20}$

i) $\frac{20}{8} = \frac{5}{2}$

b) $\frac{2}{9} = \frac{4}{18}$

f) $\frac{7}{3} = \frac{49}{21}$

j) $\frac{32}{20} = \frac{8}{5}$

c) $\frac{15}{40} = \frac{3}{8}$

g) $\frac{22}{55} = \frac{2}{5}$

k) $\frac{9}{45} = \frac{1}{5}$

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

h) $\frac{12}{30} = \frac{14}{35} = \frac{2}{5}$

8 Here are two fraction cards.

What could the missing numbers be?

Give six possible answers.

e.g. $\frac{12}{8} = \frac{6}{4}$

$\frac{12}{2} = \frac{24}{4}$

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

$\frac{12}{24} = \frac{2}{4}$

$\frac{12}{6} = \frac{8}{4}$

$\frac{12}{48} = \frac{1}{4}$

