

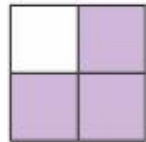
What is a fraction?

1 What fraction of each shape is shaded?

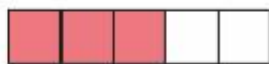
a)



c)



b)



d)



2 Shade each diagram to represent the fractions.

a)



$\frac{1}{6}$

c)



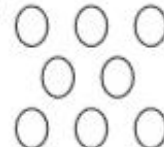
$\frac{5}{8}$

b)



$\frac{5}{6}$

d)



$\frac{5}{8}$

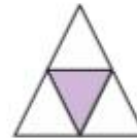
3 Circle the unit fractions.

$\frac{1}{3}$ $\frac{1}{5}$ $\frac{3}{5}$ $\frac{1}{8}$ $\frac{2}{3}$ $\frac{10}{11}$

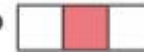
How do you know which are unit fractions?

4 a) Tick the shapes with one third shaded.

A



D



F



B



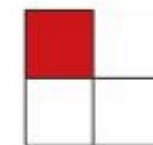
E



G



C



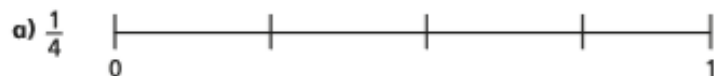
b) Complete the sentences to describe the shapes with one third shaded.

There are equal parts altogether.

out of equal parts is shaded.

of the shape is shaded.

- 5 Draw an arrow to show the position of the fraction on the number line.



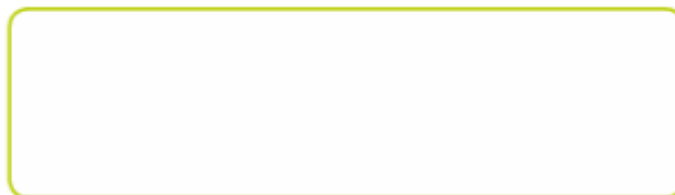
- 6 Draw an arrow to show the position of $\frac{5}{5}$ on the number line.



What do you notice?



- 7 Draw four different representations of $\frac{3}{4}$



- 8 Amir has drawn some 2D shapes.



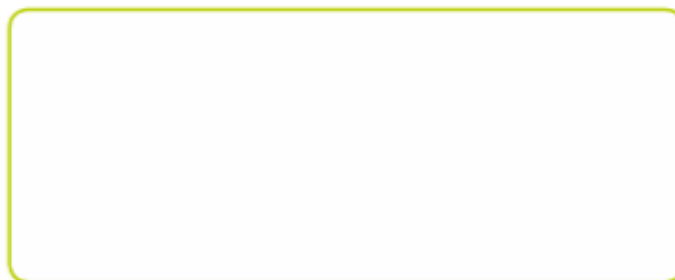
a) What fraction of the shapes are triangles?

b) What fraction of the shapes are squares?

c) What fraction of the shapes have four sides?

d) Draw 2D shapes to match the description.

$\frac{1}{5}$ are squares, $\frac{2}{5}$ are triangles, $\frac{3}{5}$ have more than 3 sides.



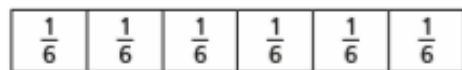
Compare shapes with a partner.

What is the same about your shapes? Is anything different?

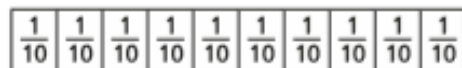


Equivalent fractions (1)

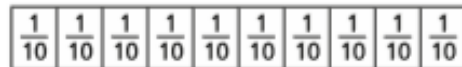
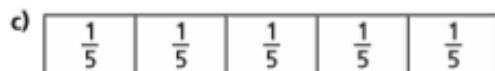
1 Shade the bar models to represent the equivalent fractions.



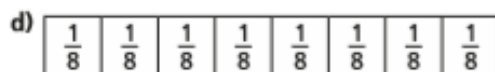
$$\frac{1}{2} = \frac{3}{6}$$



$$\frac{1}{2} = \frac{5}{10}$$



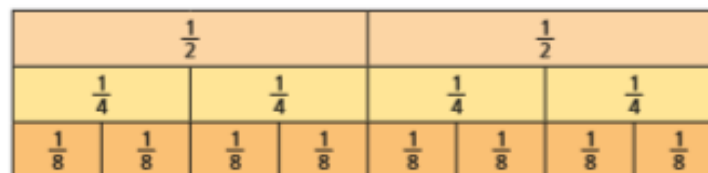
$$\frac{4}{5} = \frac{8}{10}$$



$$\frac{6}{8} = \frac{3}{4}$$



2 Use the fraction wall to complete the equivalent fractions.



a) $\frac{1}{2} = \frac{\square}{4}$

c) $\frac{2}{4} = \frac{4}{\square}$

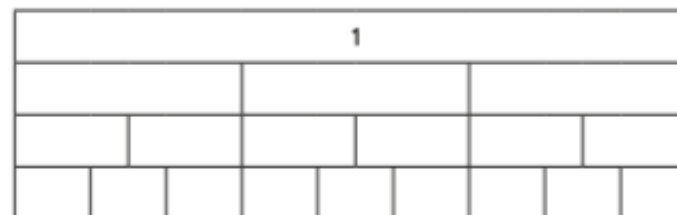
e) $\frac{\square}{8} = \frac{3}{4}$

b) $\frac{1}{2} = \frac{\square}{8}$

d) $\frac{2}{8} = \frac{\square}{4}$

f) $\frac{2}{2} = \frac{\square}{4} = \frac{\square}{8}$

3 a) Label the fractions on the fraction wall.



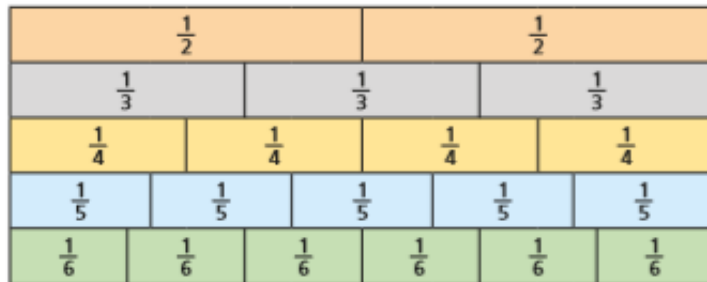
b) Use the fraction wall to complete the equivalent fractions.

$$\frac{1}{3} = \frac{\square}{6} = \frac{3}{\square}$$

$$\frac{\square}{3} = \frac{4}{\square} = \frac{6}{9}$$

$$\frac{3}{\square} = \frac{6}{\square} = \frac{9}{\square} = 1$$

- 4 Here is a fraction wall.



Is each statement true or false? Tick your answers.

- | | True | False |
|---|--------------------------|--------------------------|
| a) $\frac{1}{2}$ is equivalent to $\frac{3}{6}$ | <input type="checkbox"/> | <input type="checkbox"/> |
| b) $\frac{2}{3}$ is equivalent to $\frac{3}{4}$ | <input type="checkbox"/> | <input type="checkbox"/> |
| c) $\frac{2}{4}$ is equivalent to $\frac{3}{6}$ | <input type="checkbox"/> | <input type="checkbox"/> |
| d) $\frac{2}{3}$ is equivalent to $\frac{4}{5}$ | <input type="checkbox"/> | <input type="checkbox"/> |
| e) $\frac{2}{3}$ is equivalent to $\frac{4}{6}$ | <input type="checkbox"/> | <input type="checkbox"/> |
| f) $\frac{3}{5}$ is equivalent to $\frac{4}{6}$ | <input type="checkbox"/> | <input type="checkbox"/> |

Write your own equivalent fractions statements.

Ask a partner to say if they are true or false.



- 5 Are the statements always, sometimes or never true?

Circle your answer.

Draw a diagram to support your answer.

- a) The greater the numerator, the greater the fraction.

always sometimes never

- b) Fractions equivalent to one half have even numerators.

always sometimes never

- c) If a fraction is equivalent to one half, the denominator will be double the numerator.

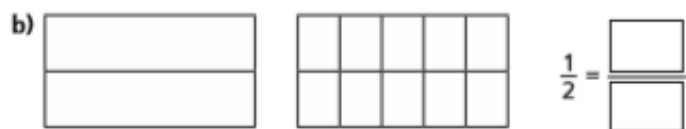
always sometimes never



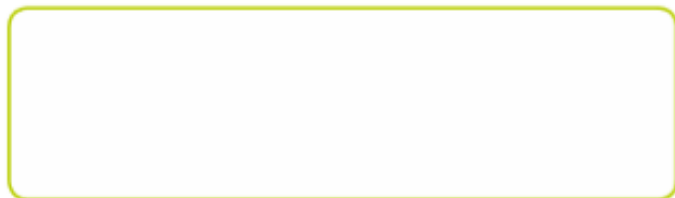
Equivalent fractions (2)

- 1 Shade the diagrams to help you complete the equivalent fractions.

The first one has been done for you.



- 2 Draw a diagram to show that $\frac{3}{4} = \frac{6}{8}$



- 3 Match the equivalent fractions.

$$\frac{1}{4}$$

$$\frac{4}{10}$$

$$\frac{10}{15}$$

$$\frac{1}{7}$$

$$\frac{3}{21}$$

$$\frac{2}{3}$$

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

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

- 4 Complete the equivalent fractions.

a) $\frac{1}{5} = \frac{\square}{10}$

d) $\frac{3}{10} = \frac{9}{\square}$

g) $\frac{8}{12} = \frac{2}{\square}$

b) $\frac{4}{5} = \frac{\square}{10}$

e) $\frac{6}{8} = \frac{3}{\square}$

h) $\frac{2}{\square} = \frac{10}{25}$

c) $\frac{3}{10} = \frac{6}{\square}$

f) $\frac{8}{12} = \frac{\square}{3}$

i) $\frac{1}{\square} = \frac{4}{28}$

- 5 a) Write the fractions in the correct place on the sorting diagram.

$\frac{8}{24}$	$\frac{3}{12}$	$\frac{5}{15}$	$\frac{6}{24}$	$\frac{4}{12}$	$\frac{9}{36}$	$\frac{3}{9}$	$\frac{4}{16}$
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	equivalent to $\frac{1}{3}$	equivalent to $\frac{1}{4}$
odd denominator		
even denominator		

- b) Are any of the boxes empty?

Why do you think this is?

Talk about your answer with a partner.



- 6 Find three ways to make the fractions equivalent.

a) $\frac{2}{\square} = \frac{4}{\square}$ $\frac{2}{\square} = \frac{4}{\square}$ $\frac{2}{\square} = \frac{4}{\square}$

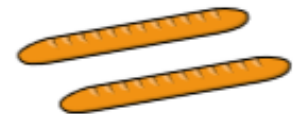
b) $\frac{1}{\square} = \frac{4}{\square}$ $\frac{1}{\square} = \frac{4}{\square}$ $\frac{1}{\square} = \frac{4}{\square}$

c) $\frac{\square}{3} = \frac{\square}{9}$ $\frac{\square}{3} = \frac{\square}{9}$ $\frac{\square}{3} = \frac{\square}{9}$

- 7 Eva and Ron have a baguette each.

The baguettes are the same size.

Eva cuts her baguette into 8 equal pieces.



3 of my equal pieces are equal to 6 of Eva's.



How many equal pieces has Ron cut his baguette into?

Ron has cut his baguette into equal pieces.



Challenge

Write an addition fact that equals 1000.

$$\square + \square = 1000$$

+ 6 points

Challenge

Write a subtraction fact that equals 500.

$$\square - \square = 500$$

+ 6 points

Challenge

Which of these facts has the **greatest** answer?

$$222 + 333 \quad 111 + 555$$

+ 8 points

Challenge

Spot the **TRUE** fact.

$$\begin{array}{r} 235 + 120 = 455 \\ 617 + 156 = 774 \\ 449 = 225 + 176 \\ 347 = 119 + 228 \end{array}$$

+ 7 points

Challenge

Spot the **TRUE** fact.

$$\begin{array}{r} 570 + 128 = 696 \\ 700 + 166 = 886 \\ 759 = 220 + 549 \\ 504 = 304 + 200 \end{array}$$

+ 7 points

Challenge

Which of these facts has the **greatest** answer?

$$606 + 282 \quad 828 + 66$$

+ 8 points



Chance

Treat:
+ 10 points

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Chance

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+ 10 points

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