

MATHS – Lesson 1 – Equivalent Fractions



Equivalent fractions (1)

1 Shade the bar models to represent the fractions.

a) Shade $\frac{1}{2}$ of the bar model.



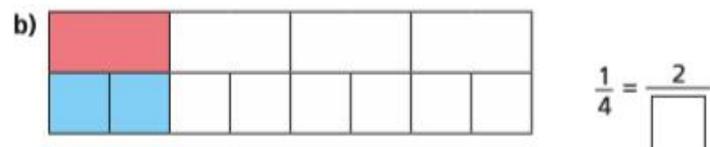
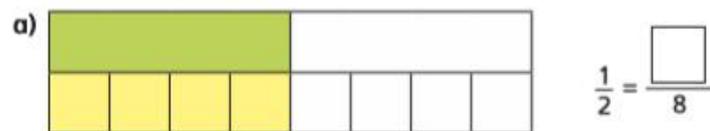
b) Shade $\frac{2}{4}$ of the bar model.



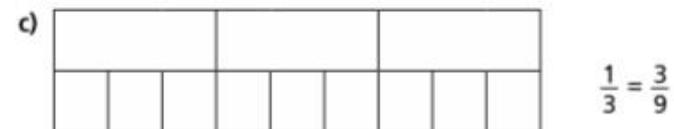
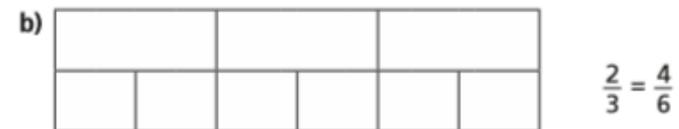
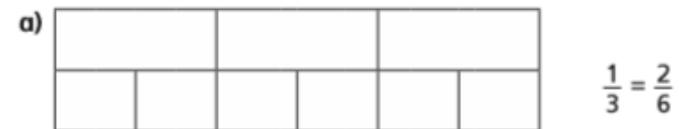
What do you notice?



2 Complete the equivalent fractions.

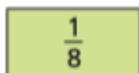
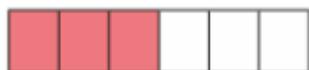
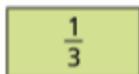
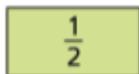


3 Shade the bar models to represent the equivalent fractions.

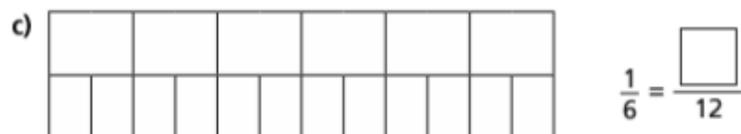
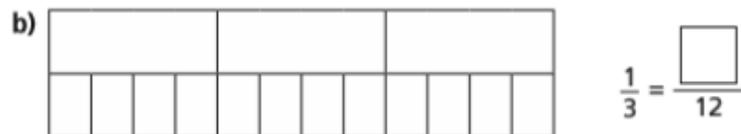


Can you find any more equivalent fractions using the bar models?

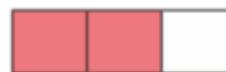
4 Match each bar model to its equivalent fraction.



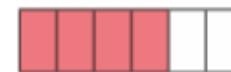
5 Shade the bar models to complete the equivalent fractions.



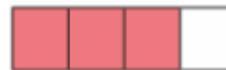
6 The bar models represent fractions.



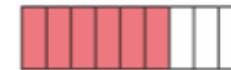
A



C



B

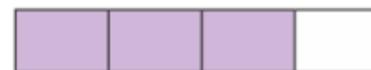


D

Which is the odd one out? _____

Why do you think this?

7 This bar model represents $\frac{3}{4}$



Tick the bar models that can be used to show a fraction that is equivalent to $\frac{3}{4}$

Shade the bar models to support your answers.







Talk to a partner about your answers.

MATHS – Lesson 2 – Equivalent Fractions

Equivalent fractions (2)



1 Shade the bar models to represent the fractions.

a) Shade $\frac{1}{2}$ of the bar model.



b) Shade $\frac{2}{4}$ of the bar model.



c) Shade $\frac{3}{6}$ of the bar model.



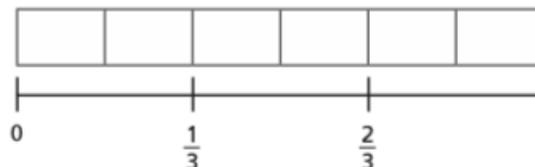
d) What do you notice?

e) Write another fraction that is equivalent to $\frac{1}{2}$

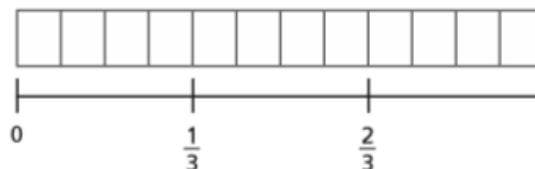


2 Shade $\frac{2}{3}$ of each bar model.

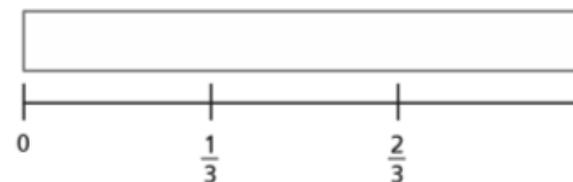
a)



b)



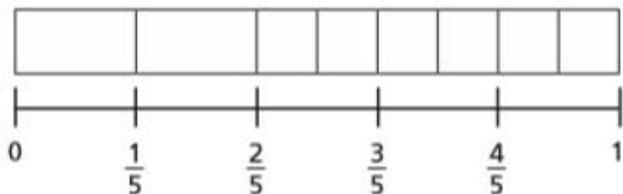
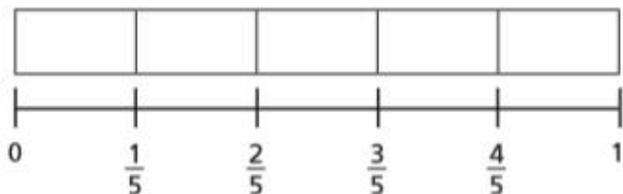
c)



d) Use your answers to parts a), b) and c) to complete the equivalent fractions.

$$\frac{2}{3} = \frac{\square}{6} = \frac{8}{\square} = \frac{\square}{15}$$

3 Mo is finding equivalent fractions.



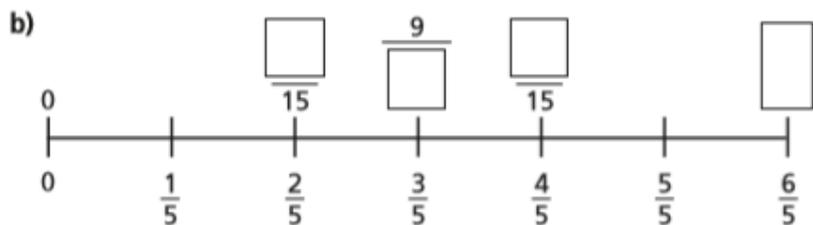
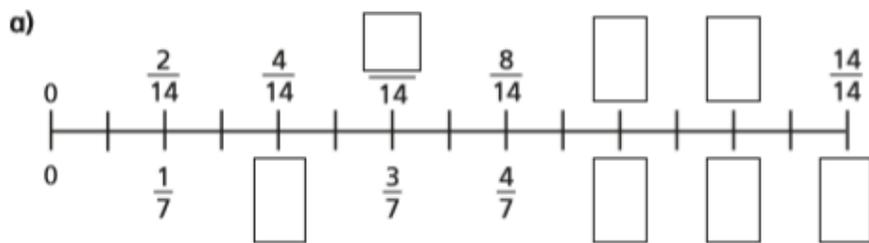
$\frac{6}{8}$ is equivalent to $\frac{4}{5}$

Do you agree with Mo? _____

Explain your answer.



4 Find the missing numbers.



5 Here is a number line.



a) What fraction is each shape pointing to?

= =

b) A circle is halfway between the triangle and the square.

Draw the circle on the number line.

c)

The circle is pointing to $\frac{9}{21}$

Do you agree with Eva? _____

Show how you worked this out.

d) Write three equivalent fractions for each shape.

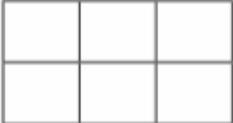
Compare answers with a partner.

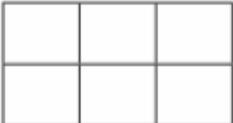
MATHS – Lesson 3 – Equivalent Fractions

Equivalent fractions (3)



1 Shade the shapes to help you complete the equivalent fractions.

a)   $\frac{1}{3} = \frac{\square}{\square}$

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

c)   $\frac{3}{4} = \frac{\square}{\square}$

d)   $\frac{3}{4} = \frac{\square}{\square}$

2 Use the fraction wall to complete the equivalent fractions.

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

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

d) $\frac{2}{3} = \frac{6}{\square}$

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

e) $\frac{4}{6} = \frac{6}{\square}$

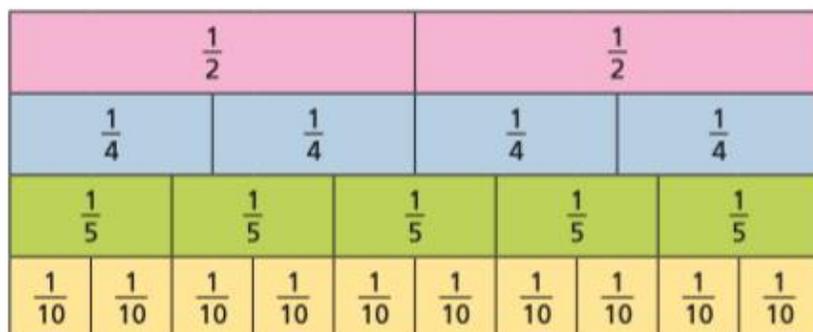
c) $\frac{2}{3} = \frac{4}{\square}$

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

3 Draw a picture to show that one quarter is equivalent to two eighths.



- 4 Use the fraction wall to decide whether the fractions are equivalent or not.



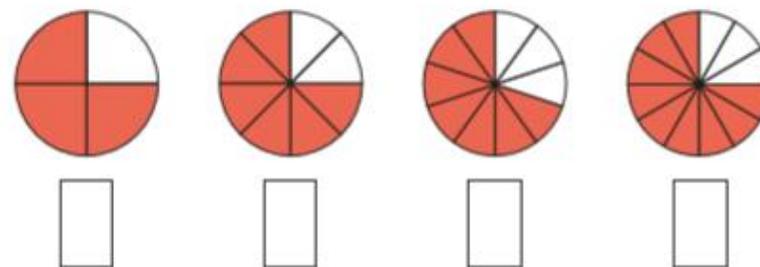
Complete the sentences using **is** or **is not**.

- a) $\frac{1}{2}$ _____ equivalent to $\frac{2}{4}$
- b) $\frac{1}{4}$ _____ equivalent to $\frac{2}{10}$
- c) $\frac{1}{2}$ _____ equivalent to $\frac{5}{10}$
- d) $\frac{3}{10}$ _____ equivalent to $\frac{2}{5}$
- e) $\frac{4}{5}$ _____ equivalent to $\frac{8}{10}$
- f) $\frac{3}{4}$ _____ equivalent to $\frac{4}{5}$

Write some sentences of your own and ask a partner to fill in the gaps.



- 5 a) What fraction of each shape is shaded?



- b) Use the fractions in part a) to complete the sentences.

is equivalent to

is equivalent to

is not equivalent to

is not equivalent to

Compare answers with a partner.

- 6 The bar model represents $\frac{1}{2}$

Write as many equivalent fractions as you can.

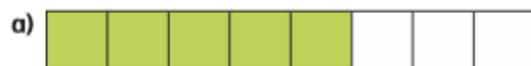
What is the same about all the fractions you have written?

MATHS – Lesson 4 – Compare Fractions

Compare fractions

1 Write <, > or = to compare the fractions.

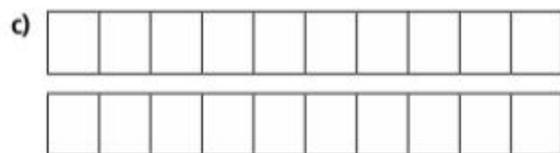
Use the bar models to help you.



$\frac{5}{8}$ ○ $\frac{3}{8}$



$\frac{5}{8}$ ○ $\frac{7}{8}$



$\frac{5}{10}$ ○ $\frac{7}{10}$

2 Write <, > or = to compare the fractions.

a) $\frac{1}{5}$ ○ $\frac{3}{5}$

d) $\frac{6}{7}$ ○ $\frac{2}{7}$

b) $\frac{2}{5}$ ○ $\frac{2}{5}$

e) $\frac{6}{13}$ ○ $\frac{12}{13}$

c) $\frac{2}{7}$ ○ $\frac{6}{7}$

f) $\frac{13}{15}$ ○ $\frac{13}{15}$

3 Here are some bar models.



$\frac{1}{2}$



$\frac{1}{3}$



$\frac{1}{4}$



$\frac{1}{5}$

a) Shade the bar models to represent the fractions.

b) Write < or > to compare the fractions.

Use the bar models to help you.

$\frac{1}{2}$ ○ $\frac{1}{3}$

$\frac{1}{4}$ ○ $\frac{1}{3}$

$\frac{1}{5}$ ○ $\frac{1}{3}$

$\frac{1}{3}$ ○ $\frac{1}{2}$

$\frac{1}{4}$ ○ $\frac{1}{5}$

$\frac{1}{5}$ ○ $\frac{1}{2}$



- 4 What could the missing numerators and denominators be?
Give three examples for each.

a) $\frac{1}{5} < \frac{\square}{5}$ $\frac{1}{5} < \frac{\square}{5}$ $\frac{1}{5} < \frac{\square}{5}$

b) $\frac{1}{5} < \frac{1}{\square}$ $\frac{1}{5} < \frac{1}{\square}$ $\frac{1}{5} < \frac{1}{\square}$

- 5 Jack is comparing fractions.

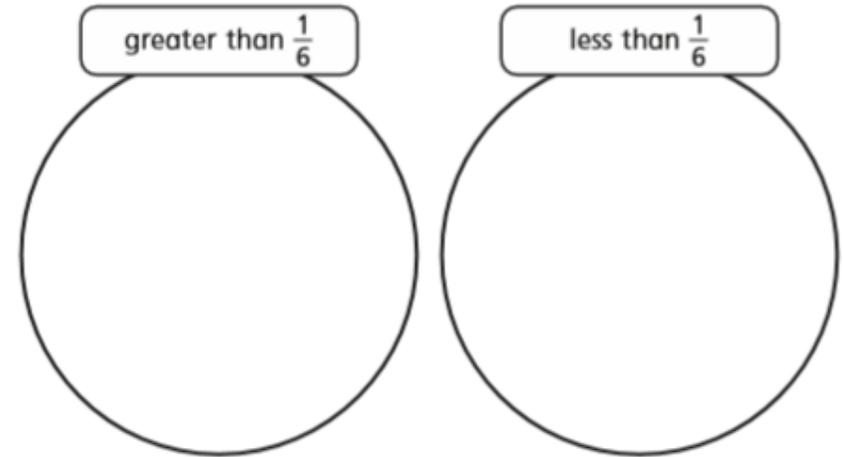
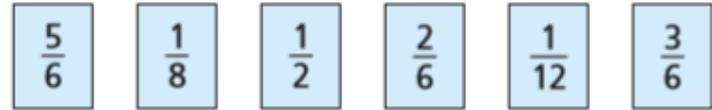
$\frac{1}{8}$ is greater than $\frac{1}{4}$
because 8 is greater than 4



Draw bar models to show that Jack is wrong.



- 6 Sort the fractions into the circles.



- 7 Complete the sentences using the word bank.

numerator denominator greater smaller

a) When fractions have the same denominator, the greater the _____, the _____ the fraction.

b) When fractions have the same numerator, the greater the _____, the _____ the fraction.