

1 Shade the bar models to represent the equivalent fractions.

a)

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

b)

$\frac{1}{2}$	$\frac{1}{2}$
---------------	---------------

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

 $\frac{1}{2} = \frac{2}{4}$

c)

$\frac{1}{2}$	$\frac{1}{2}$
---------------	---------------

$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
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 $\frac{1}{2} = \frac{4}{8}$

d)

$\frac{1}{2}$	$\frac{1}{2}$
---------------	---------------

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

2 Shade the diagrams to help you complete the equivalent fractions. The first one has been done for you.

a)

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

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

b)

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

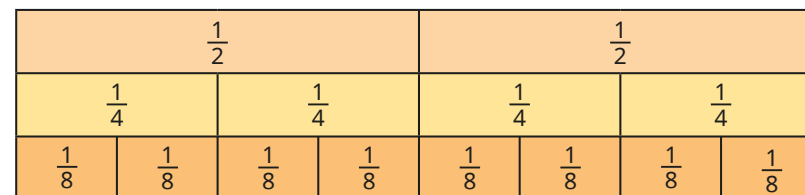


c)

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

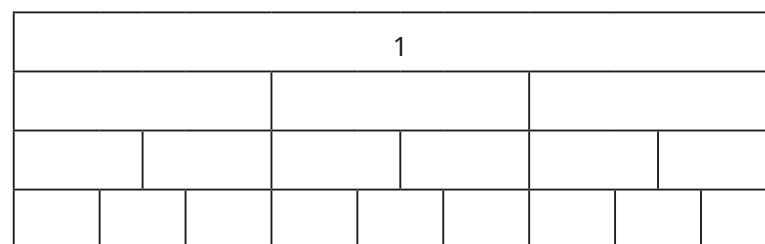
3 Use the fraction wall to complete the equivalent fractions.



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

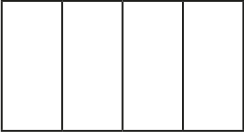
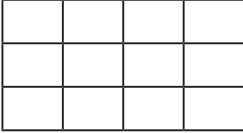
4 a) Label the fractions on the fraction wall.



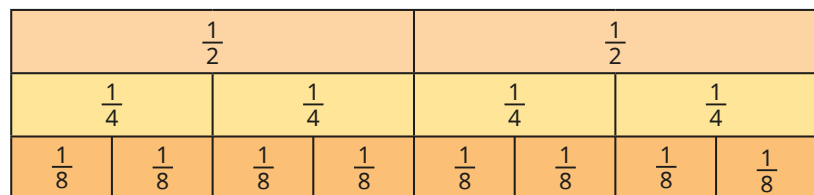
b) Use the fraction wall to complete the equivalent fractions.

$\frac{1}{3} = \frac{\square}{6} = \frac{3}{\square}$ $\frac{\square}{3} = \frac{4}{\square} = \frac{6}{9}$ $\frac{3}{\square} = \frac{6}{\square} = \frac{9}{\square} = 1$



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

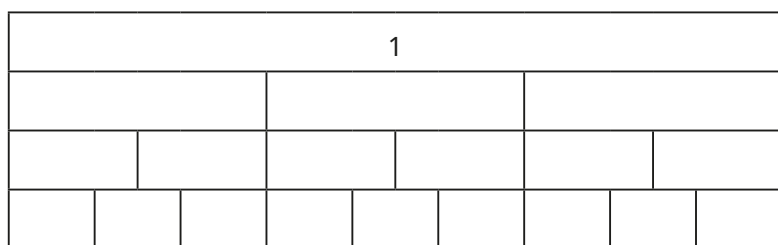
3 Use the fraction wall to complete the equivalent fractions.



a) $\frac{1}{2} = \frac{\square}{4}$ c) $\frac{2}{4} = \frac{4}{\square}$ e) $\frac{\square}{8} = \frac{3}{4}$

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4 a) Label the fractions on the fraction wall.



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

$\frac{1}{3} = \frac{\square}{6} = \frac{3}{\square}$ $\frac{\square}{3} = \frac{4}{\square} = \frac{6}{9}$ $\frac{3}{\square} = \frac{6}{\square} = \frac{9}{\square} = 1$

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

$\frac{8}{24}$ $\frac{3}{12}$ $\frac{5}{15}$ $\frac{6}{24}$ $\frac{4}{12}$ $\frac{9}{36}$ $\frac{3}{9}$ $\frac{4}{16}$

	equivalent to $\frac{1}{3}$	equivalent to $\frac{1}{4}$
odd denominator		
even denominator		

b) Why are parts of the table empty?

6 Are the statements always, sometimes or never true?

Draw a diagram to support your answer.

- a) Fractions equivalent to one half have even numerators.
 b) If a fraction is equivalent to one half, the denominator will be double the numerator.

7



To find all the fractions equivalent to a given fraction, you just keep doubling the numerators and denominators.

Do you agree with Tiny?

Talk about it with a partner.

