Equivalent fractions (3)

White Rose Maths
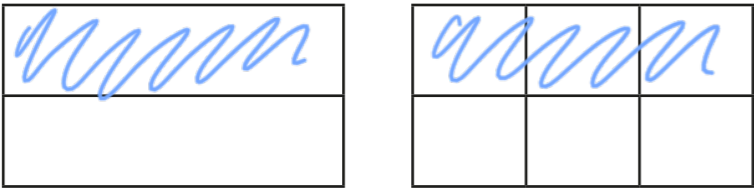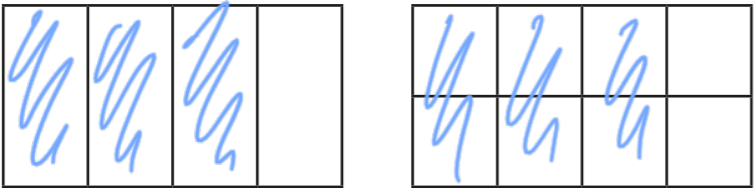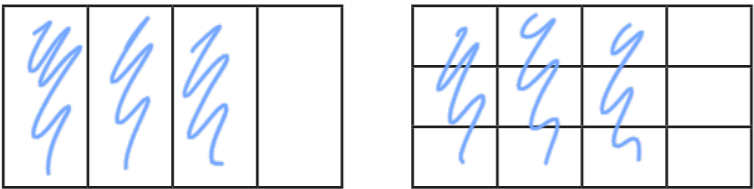
1 Shade the shapes to help you complete the equivalent fractions.

a)

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

b)

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

c)

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

d)

$\frac{3}{4} = \frac{9}{12}$

2 Use the fraction wall to complete the equivalent fractions.

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

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

d) $\frac{2}{3} = \frac{6}{9}$

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

e) $\frac{4}{6} = \frac{6}{9}$

c) $\frac{2}{3} = \frac{4}{6}$

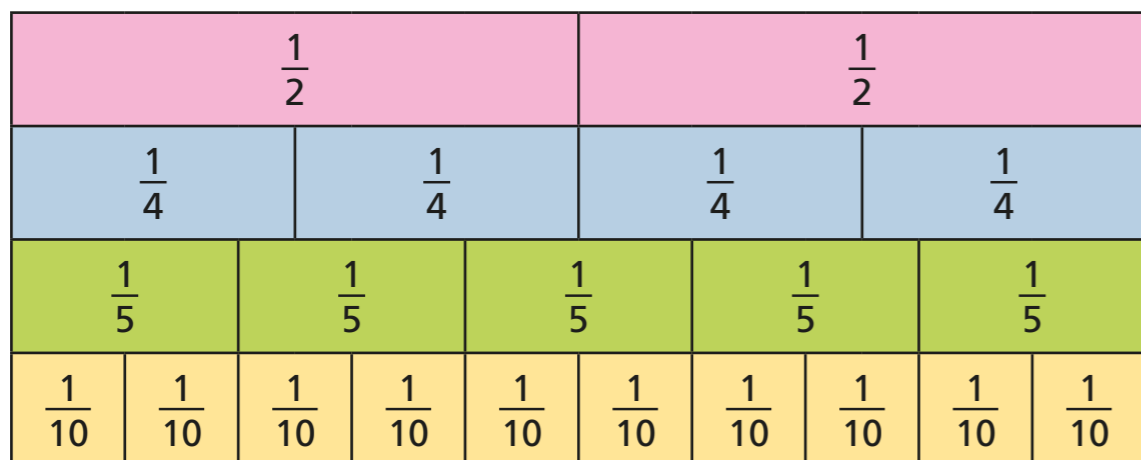e) $\frac{1}{3} = \frac{2}{6} = \frac{3}{9}$

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

e.g.

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

$\frac{1}{2}$				$\frac{1}{2}$				
$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$			
$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$	
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$

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

a) $\frac{1}{2}$ _____is_____ equivalent to $\frac{2}{4}$

b) $\frac{1}{4}$ _____is not_____ equivalent to $\frac{2}{10}$

c) $\frac{1}{2}$ _____is_____ equivalent to $\frac{5}{10}$

d) $\frac{3}{10}$ _____is not_____ equivalent to $\frac{2}{5}$

e) $\frac{4}{5}$ _____is_____ equivalent to $\frac{8}{10}$

f) $\frac{3}{4}$ _____is not_____ 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?

$\frac{3}{4}$ $\frac{6}{8}$ $\frac{7}{10}$ $\frac{9}{12}$
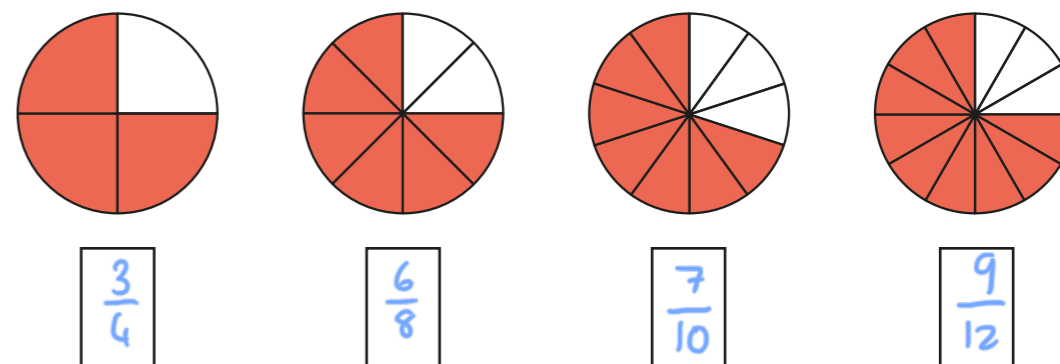
b) Use the fractions in part a) to complete the sentences.

e.g. $\frac{3}{4}$ is equivalent to $\frac{6}{8}$

$\frac{3}{4}$ is equivalent to $\frac{9}{12}$

$\frac{6}{8}$ is not equivalent to $\frac{7}{10}$

$\frac{7}{10}$ is not equivalent to $\frac{3}{4}$

Compare answers with a partner.

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

Write as many equivalent fractions as you can.

Various answers.

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