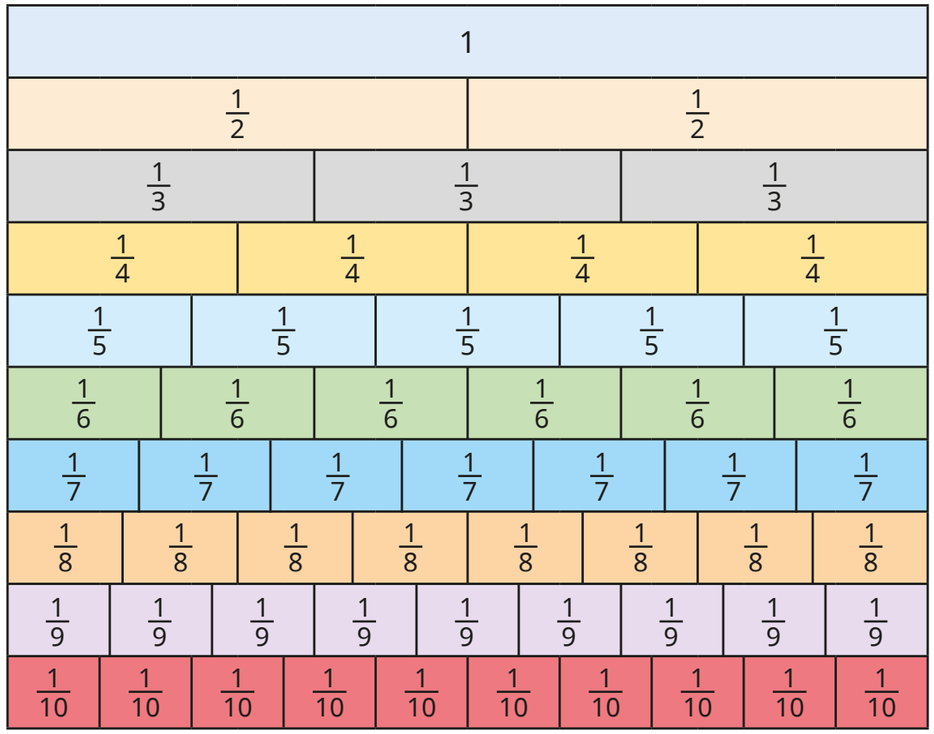
# Recognise equivalent fractions

White Rose MATHS

**1** Here is a fraction wall.




**a)** Write two fractions that are equivalent to $\frac{1}{2}$

Compare answers with a partner. Are your answers the same?

**b)** Write two fractions that are equivalent to $\frac{4}{6}$

**2** Write the missing numbers.

$\times \square$

$\frac{1}{3}$ $\frac{4}{12}$

$\times \square$

Are the fractions equivalent? _____

How do you know?

**3** **a)** Fill in the missing numbers.

$\times \square$

$\frac{1}{5}$ $\frac{5}{25}$

$\times \square$

$\times \square$

$\frac{3}{4}$ $\frac{12}{16}$

$\times \square$

$\times \square$

$\frac{4}{7}$ $\frac{8}{21}$

$\times \square$

$\div \square$

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

$\div \square$

$\div \square$

$\frac{3}{4}$ $\frac{9}{16}$

$\div \square$

$\div \square$

$\frac{1}{7}$ $\frac{3}{21}$

$\div \square$

**b)** Tick any pairs of fractions that are equivalent.

**4** Write the missing numbers.

$\times \square \xrightarrow{\times \frac{1}{6}}$ $\qquad \frac{4}{24} \xrightarrow{\times \square}$

Are the fractions equivalent? _____

How do you know?

**5** **a)** Write the missing numbers.

$\times \square \xrightarrow{\times \frac{1}{10}}$ $\times \square \xrightarrow{\times \frac{5}{45}}$ $\times \square \xrightarrow{\times \frac{2}{10}}$ $\times \square \xrightarrow{\times \frac{10}{90}}$

**b)** Tick the fractions in part a) that are equivalent to $\frac{1}{9}$

**6** **a)** Circle the fractions that are equivalent to $\frac{1}{8}$

$\frac{4}{32}$ $\quad \frac{3}{10}$ $\quad \frac{100}{800}$ $\quad \frac{10}{18}$ $\quad \frac{5}{40}$

**b)** Circle the fractions that are equivalent to $\frac{5}{7}$

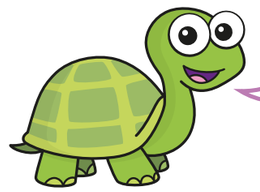
$\frac{14}{10}$ $\quad \frac{6}{8}$ $\quad \frac{10}{14}$ $\quad \frac{50}{70}$ $\quad \frac{60}{84}$

**c)** Circle the fractions that are equivalent to $\frac{9}{12}$

$\frac{18}{24}$ $\quad \frac{12}{15}$ $\quad \frac{81}{108}$ $\quad \frac{3}{4}$ $\quad \frac{36}{60}$

How did you decide which fractions to circle?

**7**



"$\frac{16}{20}$ and $\frac{20}{25}$ are not equivalent, because 16 does not go into 20"

Explain why Tiny is incorrect.

**8** Use the cards to complete the equivalent fractions.

| 1 | 2 | 4 | 5 | 8 | 10 | 20 |
|---|---|---|---|---|---|---|

$\frac{\square}{\square} = \frac{\square}{\square} = \frac{\square}{\square}$

Is there more than one way of completing the equivalent fractions?

**9** Use the clues to find the value of each letter.

- $\frac{A}{B} = \frac{C}{D} = \frac{E}{F}$
- A is $\frac{1}{4}$ of D.
- F is 5 less than A.
- D is a square number between 30 and 40
- C is a cube number less than 30

A = $\square$ $\quad$ C = $\square$ $\quad$ E = $\square$

B = $\square$ $\quad$ D = $\square$ $\quad$ F = $\square$