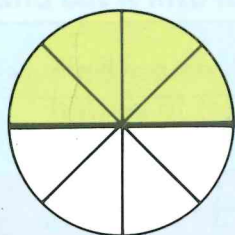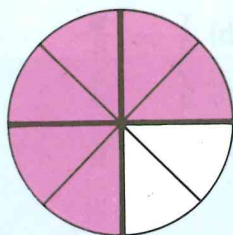## Equal fractions

This diagram shows $\frac{1}{2} = \frac{4}{8}$

Multiply **both** numerator and denominator of $\frac{1}{2}$ by 4 ⟶ $\frac{1}{2} = \frac{4}{8}$

This diagram shows $\frac{3}{4} = \frac{6}{8}$

Multiply **both** numerator and denominator of $\frac{3}{4}$ by 2 ⟶ $\frac{3}{4} = \frac{6}{8}$

Copy and complete:

1 (a) $\frac{1}{2} = \frac{\blacksquare}{8}$ (b) $\frac{1}{4} = \frac{\blacksquare}{12}$ (c) $\frac{1}{5} = \frac{\blacksquare}{20}$ (d) $\frac{1}{3} = \frac{\blacksquare}{6}$

2 (a) $\frac{2}{3} = \frac{\blacksquare}{6}$ (b) $\frac{3}{4} = \frac{\blacksquare}{12}$ (c) $\frac{2}{5} = \frac{\blacksquare}{10}$ (d) $\frac{4}{5} = \frac{\blacksquare}{20}$

3 (a) $\frac{1}{2} = \frac{3}{\blacksquare}$ (b) $\frac{1}{5} = \frac{2}{\blacksquare}$ (c) $\frac{1}{3} = \frac{4}{\blacksquare}$ (d) $\frac{1}{6} = \frac{2}{\blacksquare}$
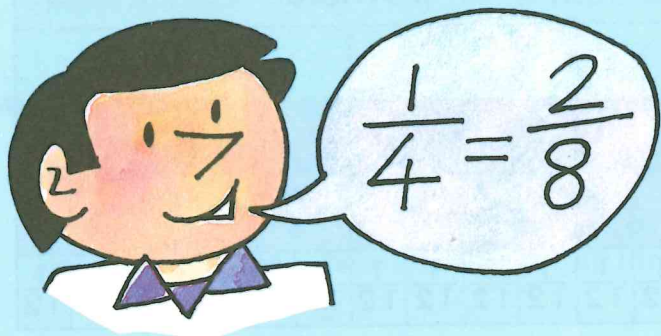
4 (a) $\frac{3}{5} = \frac{9}{\blacksquare}$ (b) $\frac{6}{10} = \frac{12}{\blacksquare}$ (c) $\frac{2}{3} = \frac{8}{\blacksquare}$ (d) $\frac{3}{4} = \frac{15}{\blacksquare}$

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

5 Write two more fractions equal to:
(a) $\frac{1}{4}$ (b) $\frac{2}{3}$ (c) $\frac{3}{5}$

6 Change: (a) $\frac{1}{2}$ to tenths,   (b) $\frac{1}{4}$ to eighths,   (c) $\frac{3}{4}$ to eighths,

(d) $\frac{2}{3}$ to twelfths,   (e) $\frac{2}{5}$ to tenths,   (f) $\frac{5}{6}$ to twelfths.

7 (a) Complete the sequence $\frac{1}{2}$, $\frac{2}{3}$, $\frac{3}{4}$, ⁻, ⁻.
Which of these fractions equals: (b) $\frac{4}{6}$ (c) $\frac{8}{10}$?

8 For each set write the 'odd one out':
(a) $\frac{1}{2}$, $\frac{3}{4}$, $\frac{4}{8}$, $\frac{5}{10}$ (b) $\frac{1}{3}$, $\frac{2}{6}$, $\frac{3}{9}$, $\frac{5}{12}$ (c) $\frac{2}{3}$, $\frac{4}{6}$, $\frac{4}{8}$, $\frac{8}{12}$

9 For each of these, find pairs of numbers ■ and ▲ to make the fractions equal:
(a) $\frac{1}{\blacksquare} = \frac{2}{\blacktriangle}$ (b) $\frac{\blacktriangle}{2} = \frac{3}{\blacksquare}$ (c) $\frac{1}{\blacktriangle} = \frac{\blacksquare}{8}$ (d) $\frac{1}{4} = \frac{\blacksquare}{\blacktriangle}$

10 Is there only one ■ and ▲ for each answer to question 9?