# 4 FRACTIONS

White Rose Maths

**1** What fraction of the shape is shaded?
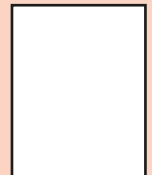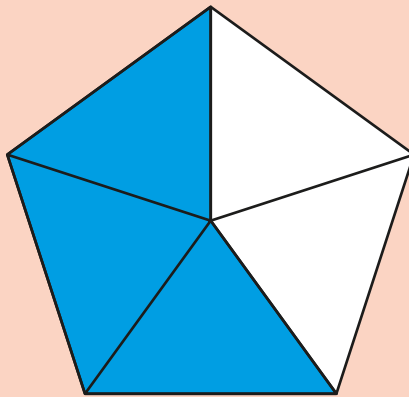


What fraction is the arrow pointing to?
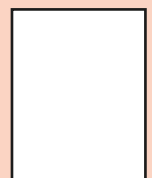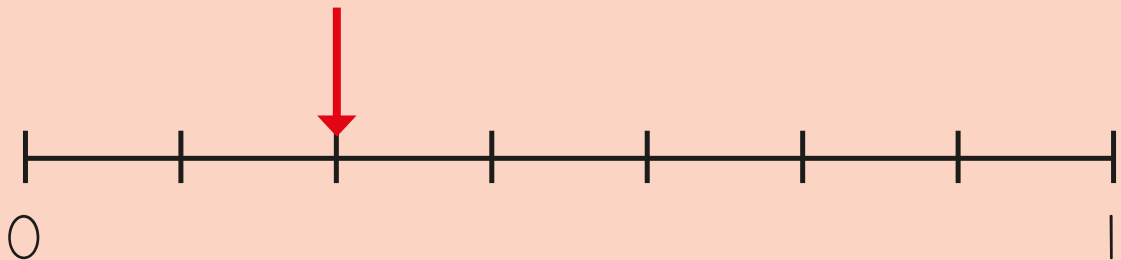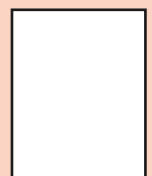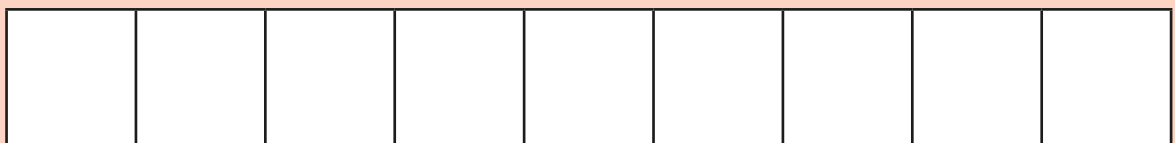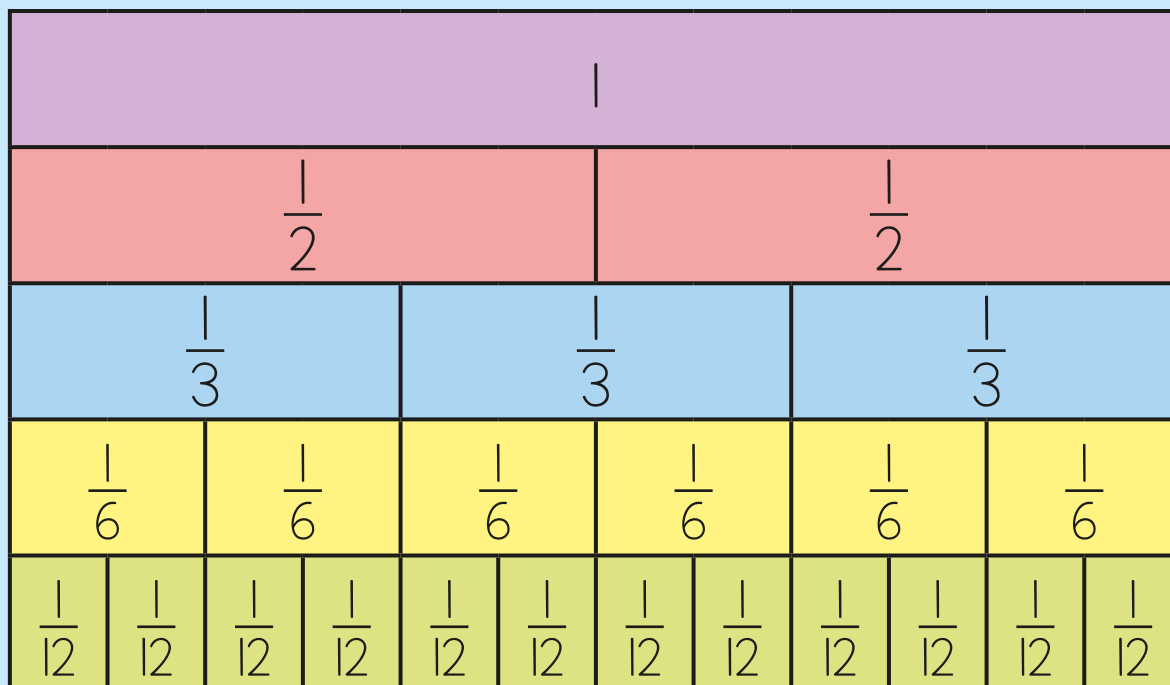


0                                           1

**2** What is $\frac{4}{9} + \frac{3}{9}$?

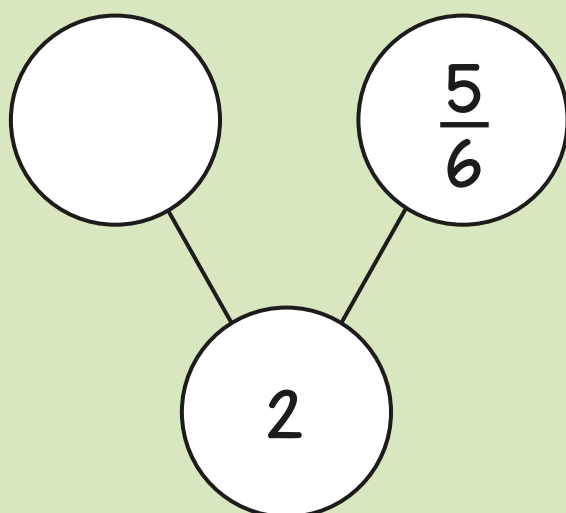Use the bar model to help you.

**3** Complete the equivalent fractions.

Use the fraction wall to help you.

| 1 | | | | | |
|---|---|---|---|---|---|

Fraction wall:
- Row 1: $1$
- Row 2: $\frac{1}{2}$ | $\frac{1}{2}$
- Row 3: $\frac{1}{3}$ | $\frac{1}{3}$ | $\frac{1}{3}$
- Row 4: $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$
- Row 5: $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$

$$\frac{2}{3} = \frac{\boxed{\phantom{0}}}{6} = \frac{\boxed{\phantom{0}}}{12}$$

$$1 = \frac{\boxed{\phantom{0}}}{6} = \frac{\boxed{\phantom{0}}}{3} = \frac{\boxed{\phantom{0}}}{12}$$

Complete the part-whole models.

$$\frac{4}{9}$$ and 1

$$\frac{5}{6}$$ and 1

$$\frac{5}{6}$$ and 2
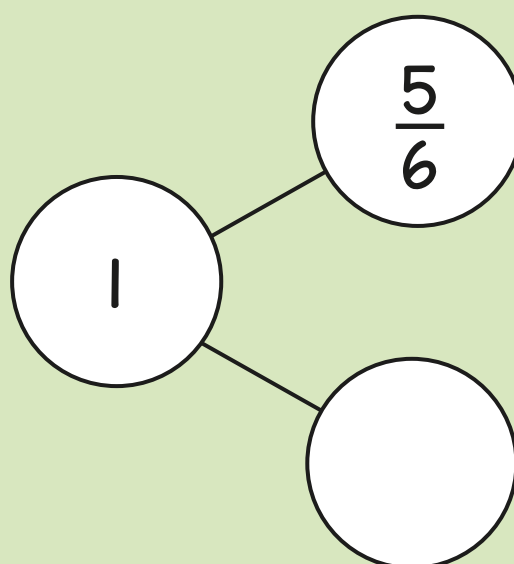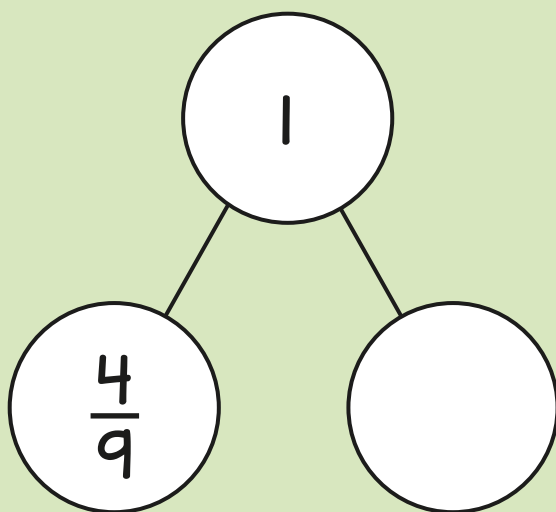
**5** Annie is counting in fifths.
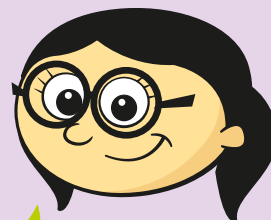
> One fifth, two fifths, three fifths, four fifths, five fifths, six fifths, seven fifths...

What is the next fraction that Annie will say?

Circle all possible answers.

$$\frac{8}{5} \qquad \frac{5}{8} \qquad 1\frac{3}{5} \qquad \text{eight fifths}$$

**6** Complete the calculations.

$$\frac{11}{5} - \frac{3}{5} = \frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}}$$

$$\frac{2}{5} + \frac{4}{5} = 1 + \frac{\boxed{\phantom{0}}}{5}$$

**7** A chocolate bar weighs 200 g.

Eva eats $\frac{3}{10}$ of the chocolate bar.
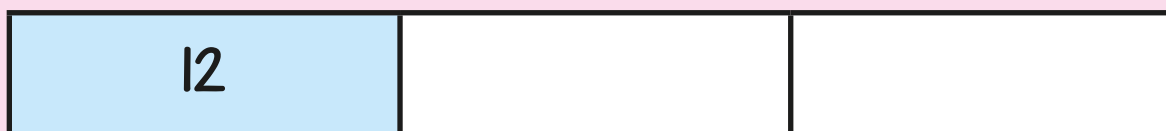
How many grams does Eva eat?

Brett eats $\frac{7}{10}$ of the chocolate bar.

How many more grams does Brett eat than Eva?

**8** $\frac{1}{3}$ of a number is 12

What is the number?

| 12 | | |

Fill in the missing numbers.

$$\frac{1}{8} \text{ of } \boxed{\phantom{00}} = 24$$

$$\frac{3}{8} \text{ of } \boxed{\phantom{00}} = 24$$

# Answers

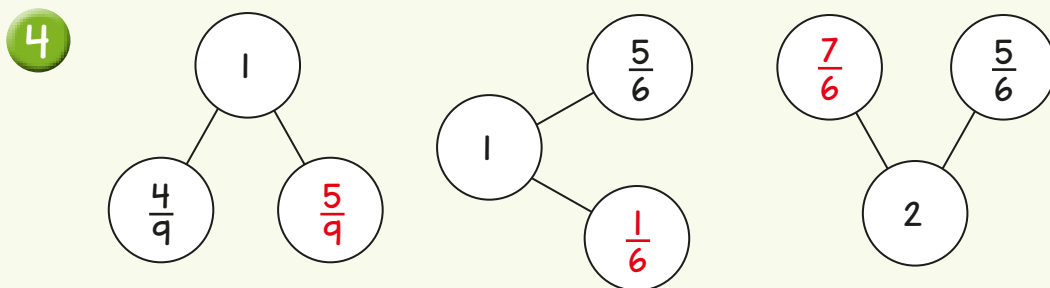**1** $\frac{3}{5}$     $\frac{2}{7}$

**2** $\frac{7}{9}$

**3** $\frac{2}{3} = \frac{4}{6} = \frac{8}{12}$     $1 = \frac{6}{6} = \frac{3}{3} = \frac{12}{12}$

**4**



**5** $\boxed{\frac{8}{5}}$  $\boxed{1\frac{3}{5}}$  $\boxed{\text{eight fifths}}$

**6** $\frac{11}{5} - \frac{3}{5} = \frac{8}{5}$     $\frac{2}{5} + \frac{4}{5} = 1 + \frac{1}{5}$

**7** 60 g
80 g

**8** 36

$\frac{1}{8}$ of 192 = 24

$\frac{3}{8}$ of 64 = 24