Converting Fractions to Percentages
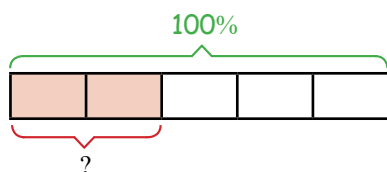
Example.   Jane has **5** hairbands. **2** of the hairbands are red.
What percentage of Jane's hairbands are red?

Find the fraction, $\frac{2}{5}$, then change it to a percentage.

Method 1   Use a bar model and parts

100%

?

5 parts ⟶ **100%**

1 part ⟶ $\frac{100}{5}$ % = **20%**
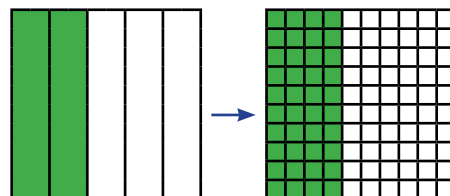
2 parts ⟶ 20% × 2 = **40%**

Method 2   Multiplication

$$\frac{2}{5} = \frac{2}{5} \times 100\% = \underline{40\%}$$

40 % of Jane's hairbands are red

Method 3   Find the equivalent fraction with **100** as the denominator

$\frac{2}{5} = \frac{\square}{100}$ → $\frac{2}{5} = \frac{\square}{100}$ → $\frac{2}{5} = \frac{40}{100}$ $\frac{2}{5} = \frac{40}{100} = \underline{40\%}$

1).   Peter has **100** apples to sell. At the end of the day he has sold **75** apples.
   a).   What percentage of apples has Peter sold?
   b).   What percentage of apples remain unsold?

2).   Sam paints a wall that is **50** m². She paints **32** m² on Monday and the rest on Tuesday.
   a).   What percentage of the wall does she paint on Monday?
   b).   What percentage of the wall does she paint on Tuesday?

3).   Resti has **800** g of sugar. She uses **240** g of the sugar to make a cake.
   a).   What percentage of the sugar does she use?
   b).   What percentage of the sugar remains unused?

4).   **1500** people watch a football match. **1020** are adults, the rest are children.
   a).   What percentage of the crowd are adults?
   b).   What percentage of the crowd are children?

5).   A baker uses **28** kg of flour to make bread and has **52** kg spare.
   a).   What percentage of the flour has the baker used?
   b).   What percentage of the flour has the baker got left?

6).   Victor has only red and blue marbles. He has **122** red marbles and **78** blue marbles.
   a).   What percentage of the marbles are red?
   b).   What percentage of the marbles are blue?

7).   In a school **120** pupils walk to school. The other **130** pupils in the school come by bus.
   a).   What percentage of pupils walk to school?
   b).   What percentage of pupils come by bus?

8).   On an aeroplane there are **126** economy seats and **49** first class seats.
   a).   What percentage of the seats on the aeroplane are economy seats?
   b).   What percentage of the seats on the aeroplane are first class seats?