

- 1 The diameter of a 10p coin is 24.5 mm.
The diameter of a 5p coin is 18 mm.
Some coins are laid out end to end.



What is the distance marked b in the diagram?

$$\begin{aligned} 24.5 \times 4 &= 98 \\ 18 \times 5 &= 90 \\ 98 - 90 &= 8 \end{aligned}$$

$$b = 8 \text{ mm}$$

- 2 Mrs Green bakes muffins.
She sells them in her shop.



$$\begin{aligned} 200 \div 10 &= 20 \\ 20 \times 7 &= 140 \\ 200 - 140 &= 60 \end{aligned}$$

- On Monday she bakes 200 and sells 70% of the them.
- On Tuesday she bakes twice as many muffins but has the same amount left.

$$400 - 60 = 340$$

$$\frac{340}{400} = \frac{17}{20} \quad 17 \times 5 = 85$$

What percentage of the muffins did she sell on Tuesday?

She sold 85% of the muffins.