



Check Up

1. Use the unit analysis strategy to complete the following conversions.

a. 100 millimetres to centimetres

b. 9 litres to decalitres



Compare your answers

1. Use the unit analysis strategy to complete the following conversions.

a. 100 millimetres to centimetres

$$100 \text{ cm} = 1000 \text{ mm so } \frac{100 \text{ cm}}{1000 \text{ mm}} = 1 \text{ and } \frac{1000 \text{ mm}}{100 \text{ cm}} = 1$$

$$\begin{aligned} 100 \text{ mm} \cdot \frac{100 \text{ cm}}{1000 \text{ mm}} &= 100 \cancel{\text{mm}} \cdot \frac{100 \text{ cm}}{1000 \cancel{\text{mm}}} \\ &= 10 \text{ cm} \end{aligned}$$

b. 9 litres to decalitres

$$0.1 \text{ daL} = 1 \text{ L so } \frac{0.1 \text{ daL}}{1 \text{ L}} = 1 \text{ and } \frac{1 \text{ L}}{0.1 \text{ daL}} = 1$$

$$\begin{aligned} 9 \text{ L} \cdot \frac{0.1 \text{ daL}}{1 \text{ L}} &= 9 \cancel{\text{L}} \cdot \frac{0.1 \text{ daL}}{1 \cancel{\text{L}}} \\ &= 0.9 \text{ daL} \end{aligned}$$