

### **MATC9 Ch3.1 Key Concepts 2 Units for Volume Worked Example**

**Example:** Explain why  $25 \text{ cm}^2$  cannot be a measure of volume.

**Solution:** Volume is measured in cubic units, such as  $\text{cm}^3$  or  $\text{m}^3$ . Volume can also be measured in litres (L). Litres are cubic units since  $1 \text{ L} = 1000 \text{ cm}^3$ .

**Practice:**

1. Maas says that the fuel tank of his truck holds 60 L of gasoline. Could this be right?

2. Lucinda says that the volume of her lunch bag is  $1200 \text{ cm}^2$ . Could this be right?

Answers: 1. Yes, volume of fuel is measured in litres. 2. No,  $\text{cm}^2$  are a measurement of area, not volume.