

MATC9 Ch3.1 Key Concepts 3 Litre Conversions Worked Example

Example: A water canteen holds 1.5 L of water. How many cm^3 of water does it hold?

Solution: 1 L = 1000 cm^3 . Multiply by 1000 to find the number of cm^3 .

$$\begin{aligned} 1.5 \text{ L} &= 1.5 \times 1000 \\ &= 1500 \text{ cm}^3 \end{aligned}$$

The canteen holds 1500 cm^3 of water.

Note: To convert cm^3 to L, divide by 1000.

Practice:

1. The fuel tank for a chain saw hold 2.3 L. How many cm^3 does it hold?

2. A drink bottle holds 550 cm^3 of water. How many litres does it hold?

Answers: 1. 2300 cm^3 2. 0.55 L