## MATC9 Ch3.2 Key Concepts 3 Converting Cubic Metres to Litres Worked Example

Example: A water truck has a tank holding $20.4 \mathrm{~m}^{3}$ of water. How many litres does it hold?

Solution: The relation is $1 \mathrm{~m}^{3}=1000 \mathrm{~L}$.
$20.4 \mathrm{~m}^{3}=20.4 \times 1000$

$$
=20400 \mathrm{~L}
$$

The volume of the truck is 20400 L .
Note: To convert litres to $\mathrm{m}^{3}$, divide by 1000.

## Practice:

1. The fuel tank for a passenger aircraft hold $10.6 \mathrm{~m}^{3}$ of kerosene. How many litres does it hold?
2. Sally's Marine Services pumped 23400 L of water into the water tank of a yacht. What was the volume in $\mathrm{m}^{3}$ ?

Answers: 1. $10600 \mathrm{~L} \quad 2.23 .4 \mathrm{~m}^{3}$

