

# Activity 13 Assessment

## Exploring Volume and Capacity Relationships

### Exploring Volume and Capacity Relationships

Understands that *capacity* is a measure of the amount a container can hold



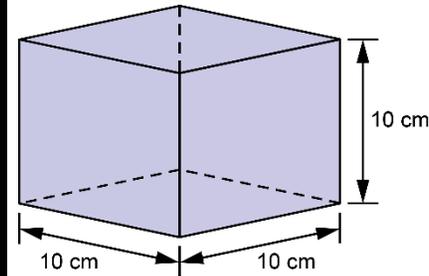
The capacity of the milk carton is 500 mL.

Understands that a container with a capacity in millilitres has a volume that is the same number of cubic centimetres



The capacity of the can is 284 mL.  
The volume of the can of soup is 284 cm<sup>3</sup>.

Relates 1 L to 1000 cm<sup>3</sup>



Volume of the cube:  
 $10\text{ cm} \times 10\text{ cm} \times 10\text{ cm} = 1000\text{ cm}^3$   
Capacity of the cube is 1000 mL = 1 L

Calculates the capacity of a container given its dimensions in centimetres



$$V = \pi r^2 h$$

$$V = \pi \times 4^2 \times 10.7$$

$$V \approx 538$$

Volume is about 538 cm<sup>3</sup>, so the capacity is about 538 mL.

### Observations/Documentation