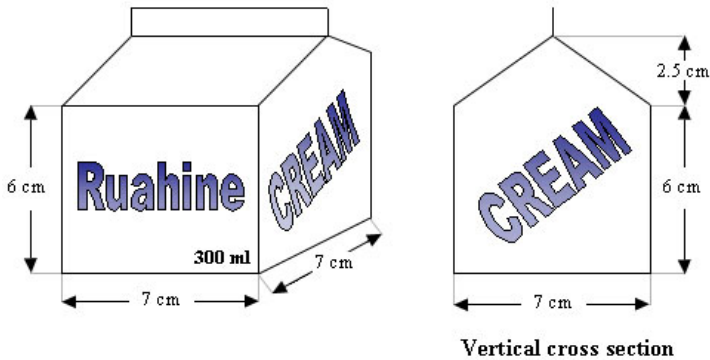


# Volume of cream

This task is about working out the area and volume of a carton.

**Volume = area of cross section  $\times$  length**



Here are two views of a carton of cream.

Calculate the **area** of the vertical cross section (*show your working*).

a)

The **area** = \_\_\_\_\_  $\text{cm}^2$

Calculate the **volume** of the cream carton (*show your working*).

b)

The **volume** = \_\_\_\_\_  $\text{cm}^3$

Calculate the **volume** of air in the carton when it has 300 ml of cream in it (*show your working*).

c)

The **volume** of air = \_\_\_\_\_  $\text{cm}^3$