

- 1 The density of apple juice is 1.05 grams per cm^3 .

The density of fruit syrup is 1.4 grams per cm^3 .

The density of carbonated water is 0.99 grams per cm^3 .

25 cm^3 of apple juice are mixed with 15 cm^3 of fruit syrup and 280 cm^3 of carbonated water to make a drink with a volume of 320 cm^3 .

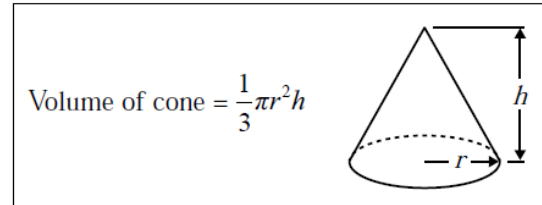
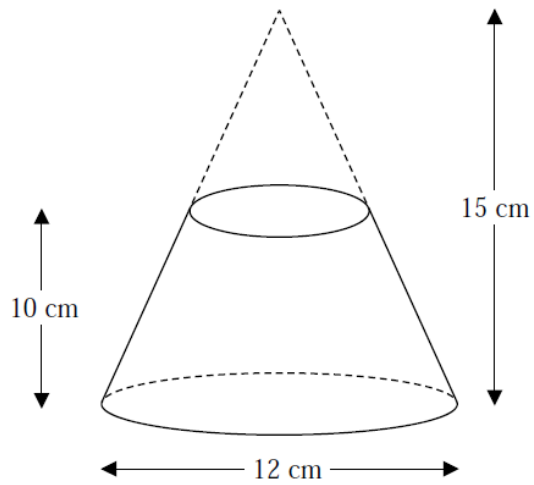
Work out the density of the drink.

Give your answer correct to 2 decimal places.

.....g/ cm^3

(Total for Question is 4 marks)

- 2 A frustum is made by removing a small cone from a large cone as shown in the diagram.



The frustum is made from glass.
The glass has a density of 2.5 g/cm^3

Work out the mass of the frustum.
Give your answer to an appropriate degree of accuracy.

..... g

(Total for Question is 5 marks)