

Home Assignment

Q1 The mass of a density bottle is 35 g when empty and 59 g when filled with water and alcohol. Find the relative density of alcohol.

$$\rightarrow 59 - 35 = 24 \text{ g}$$

Q2 What is a density bottle? How is it used to find the density of the liquid?

\rightarrow Liquid density by measuring the difference between an empty and filled bottle and dividing by an

equal volume of water to find
Specific gravity of the substance -

Q 9 Distinguish between density and
Relative density?

Density

• it is defined as mass per unit volume -	it is defined as the ratio of density
• its value is different in different systems of measurement.	its value is the same in all system of measurement
• its unit are are cm^3 and kg^{-3}	it has no units -

Q4) Explain the meaning of the statement
relative density of aluminium is 2.7

→ aluminium is 2.7 times heavier than
water

5a) ~~25 ml~~ / 50 ml

b) The ratio of the mass of the product
volume to the to the mass of equal
volume of fresh water.