Density – 2020 O Level 5054

1. Nov/2020/Paper_12/No.9

Which expression is used to calculate density?

A mass × volume

B $\frac{\text{mass}}{\text{volume}}$

C volume + mass

D $\frac{\text{volume}}{\text{mass}}$

2. June/2020/Paper_11/No.11

A single metal bolt has a mass of 34 g.

Three of the bolts are immersed in a measuring cylinder that contains 30 cm^3 of water.

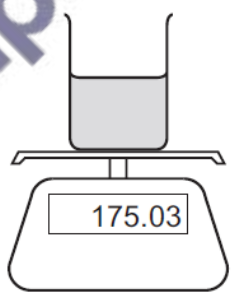
The reading on the measuring cylinder rises to 42 cm^3.

What is the density of the metal?

A 0.81 g/cm^3 **B** 2.8 g/cm^3 **C** 7.5 g/cm^3 **D** 8.5 g/cm^3

3. June/2020/Paper_12/No.10

The diagram shows the equipment used to determine the density of a liquid.



Which equation is used to calculate the density of the liquid?

A $\frac{\text{mass of beaker and liquid} - \text{mass of beaker}}{\text{volume of liquid}}$

B $\frac{\text{mass of beaker and liquid} - \text{mass of liquid}}{\text{volume of liquid}}$

C $\frac{\text{volume of liquid}}{\text{mass of beaker and liquid} - \text{mass of beaker}}$

D $\frac{\text{volume of liquid}}{\text{mass of beaker and liquid} - \text{mass of liquid}}$

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