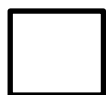
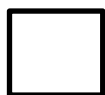


Objective: TBAT calculate with proportion



Met



Partially
Met



Not Met

Work on the
following sections:



Column 1



Column 2



Extension

Column 1

- a) A piece of wood has a mass of 7g and a volume of 10cm^3 . Calculate the density.
- b) A 50g piece of wood which has a density of 0.4g/cm^3 . Calculate the volume.
- c) i) A hosepipe is accidentally left on for 7 minutes. If the water flows at 8 litres per minute, how much water is wasted?
ii) The charge of water at this house is 50p per cubic metre. How much has this wastage cost?

Column 2

- a) A cube of ice has side length of 5cm. The mass of the cube of ice is 114.5g. Find the density of ice. Give your answer in g/cm^3 .
- b) A hosepipe fills the cylindrical can at a rate of 10 litres/minute.
- i) Calculate the volume of the can in cubic centimetres
- ii) The capacity of the can in litres
- iii) How long does it take to fill the can? Give your answer to the nearest second.



Extension:

Beverley is building a toy boat.
If wood has a density under 1g/cm^3 , it will float.
She has a choice of three different pieces of wood.

Piece 1: volume = 400cm^3 and mass = 450g.

Piece 2: volume = 0.02m^3 and mass = 8kg

Piece 3: volume = 1000cm^3 and mass = 1.03kg

Which piece of wood is the most suitable?