

4 (a) A copper cube has a mass of 0.0717 kg.

(i) Calculate the weight of this copper cube.

Give the unit.

(2)

weight = ..... unit .....

(ii) State the equation linking density, mass and volume.

(1)

(iii) The density of copper in this cube is  $8960 \text{ kg/m}^3$ .

Calculate the volume of this copper cube.

(2)

volume = .....  $\text{m}^3$

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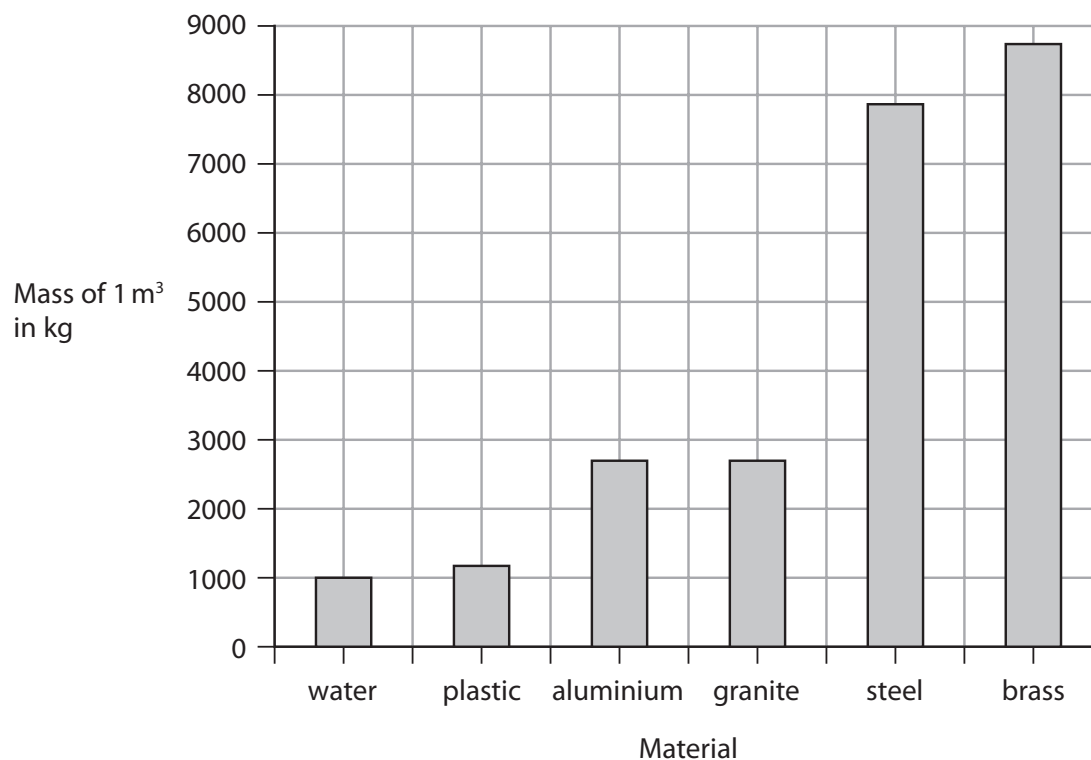
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(b) The graph shows the masses of some materials when their volume is  $1 \text{ m}^3$ .



(i) State the type of graph shown.

(1)

(ii) Use information from the graph to compare the densities of granite and steel.

(2)

(Total for Question 4 = 8 marks)



P 6 1 9 3 7 R A 0 7 2 0