5 (a) A water tank has a rectangular base of dimensions 1.5 m by 1.2 m and contains 1440 kg of water.

Calculate

(i) the weight of the water,

weight = .....[1]

(ii) the pressure exerted by the water on the base of the tank.

pressure = ..... [2]

(b) Fig. 5.1 shows two water tanks P and Q of different shape. Both tanks are circular when viewed from above. The tanks each contain the same volume of water. The depth of water in both tanks is 1,4 m.

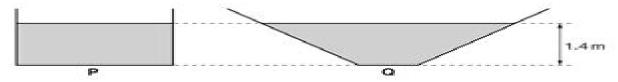


Fig. 5.1

(i) The density of water is 1000 kg/m<sup>3</sup>. The pressures exerted by the water on the base of the two tanks are equal.

Calculate this pressure.

pressure = .....[2]

(ii) Equal small volumes of water are removed from each tank.

State which tank, P or Q, now has the greater water pressure on its base. Explain your answer,

[2]

[Total: 7]

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**J Spring** 

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