

Pressure

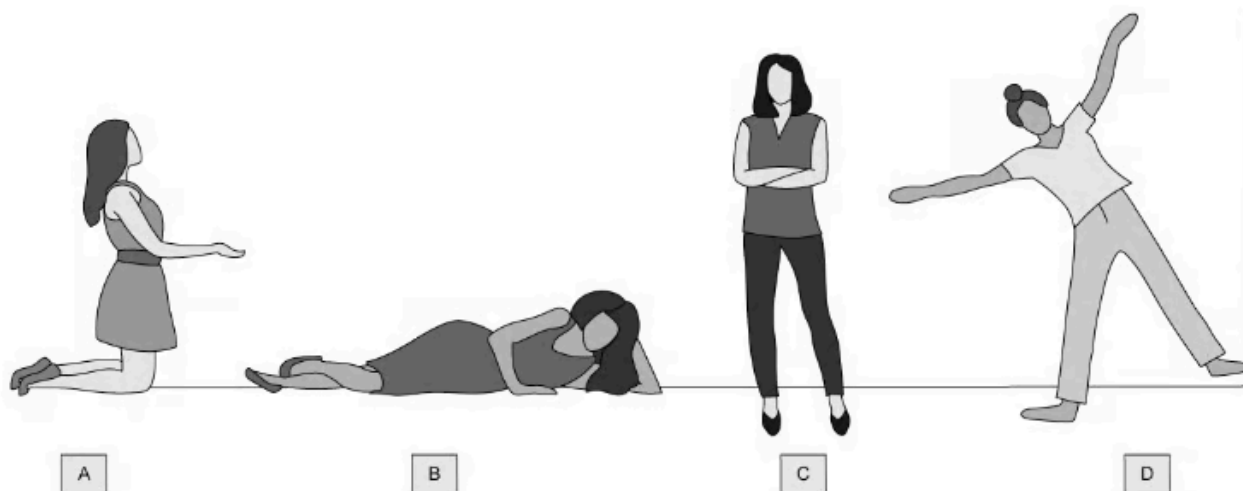
Question Paper

Course	CIE IGCSE Physics
Section	1. Motion, Forces & Energy
Topic	Pressure
Difficulty	Easy

Time Allowed	10
Score	/5
Percentage	/100

Question 1

A woman is in contact with the floor.



In which of these poses does she produce the most pressure on the floor?

Assume she is wearing flat shoes in each pose.

- A. A
- B. B
- C. C
- D. D

[1 mark]

Question 2

Which is an example of a force acting over a small area to produce a large pressure?

- A. A skier wearing large skis on snow.
- B. A hammer being used to push a nail into a piece of wood.
- C. A tractor having very wide tyres.
- D. A person lying down, rather than walking upright on a roof.

[1 mark]

Question 3

A water-filled tank is resting on a table as shown in Fig. 1

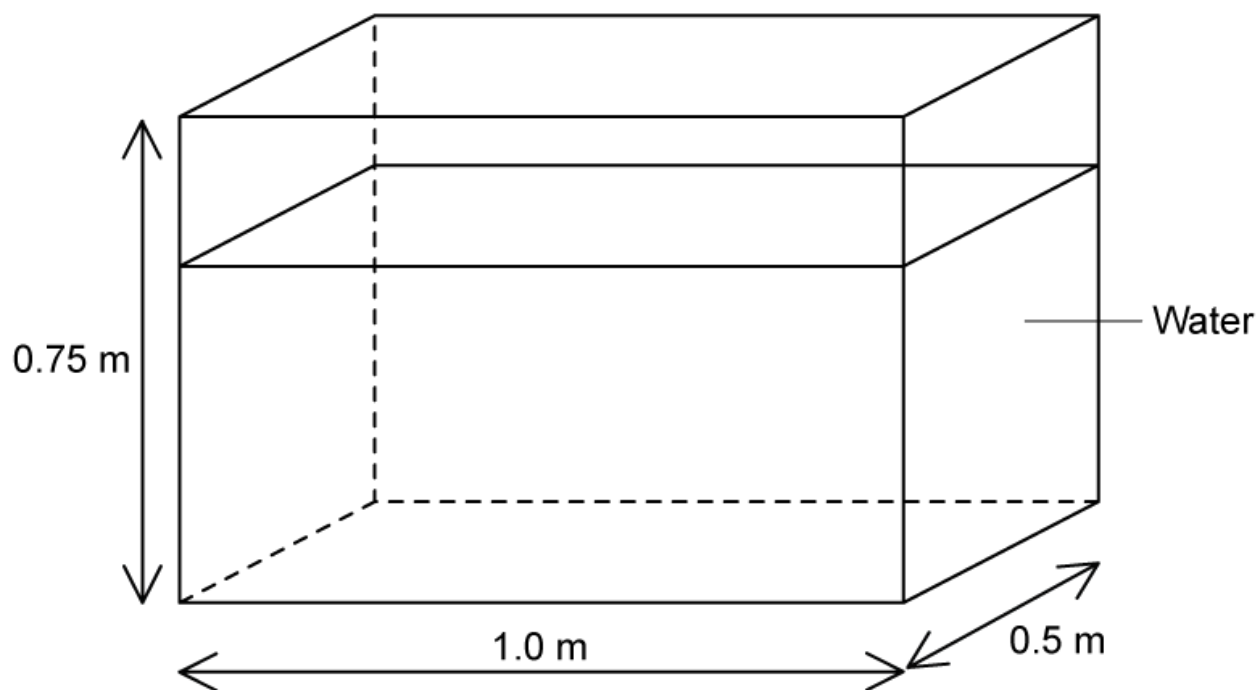


Fig. 1

Using the measurements in the diagram, determine the area which should be used to calculate the pressure the tank exerts on the table.

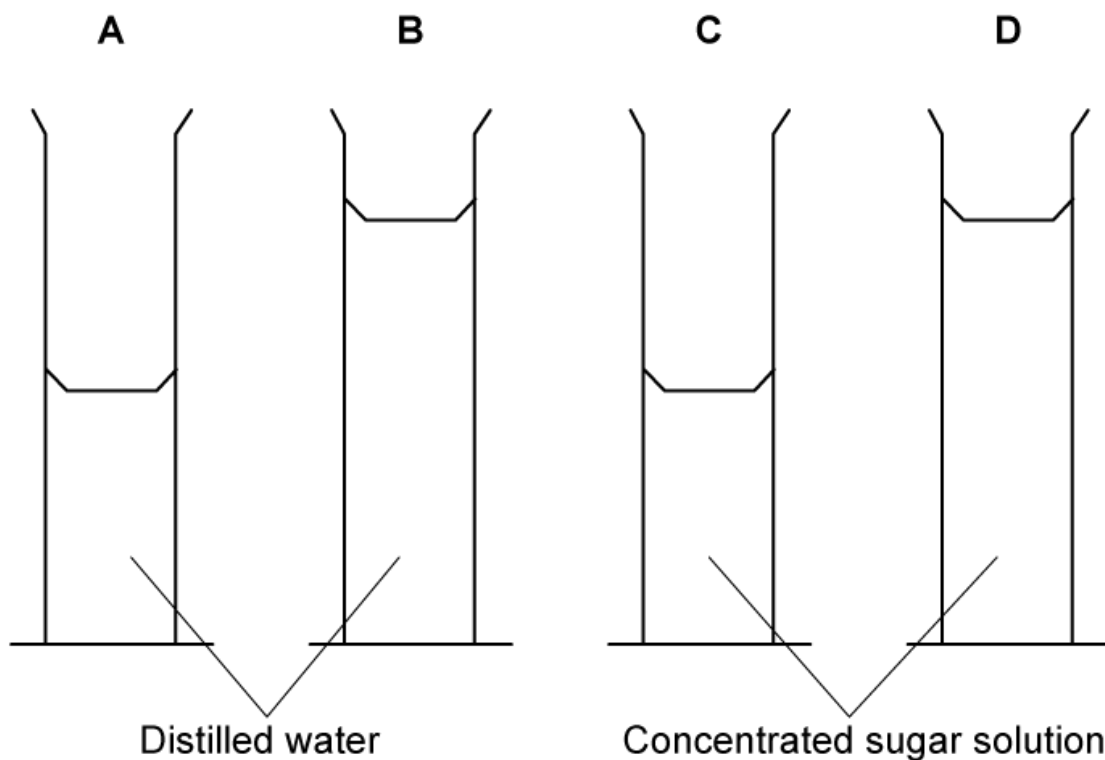
- A. 0.25 m^2
- B. 0.5 m^2
- C. 0.75 m^2
- D. 1.0 m^2

[1 mark]

Question 4

The diagram shows four measuring identical cylinders containing either distilled water or concentrated sugar solution.

Which measuring cylinder has the least pressure at the base, due to the liquid?

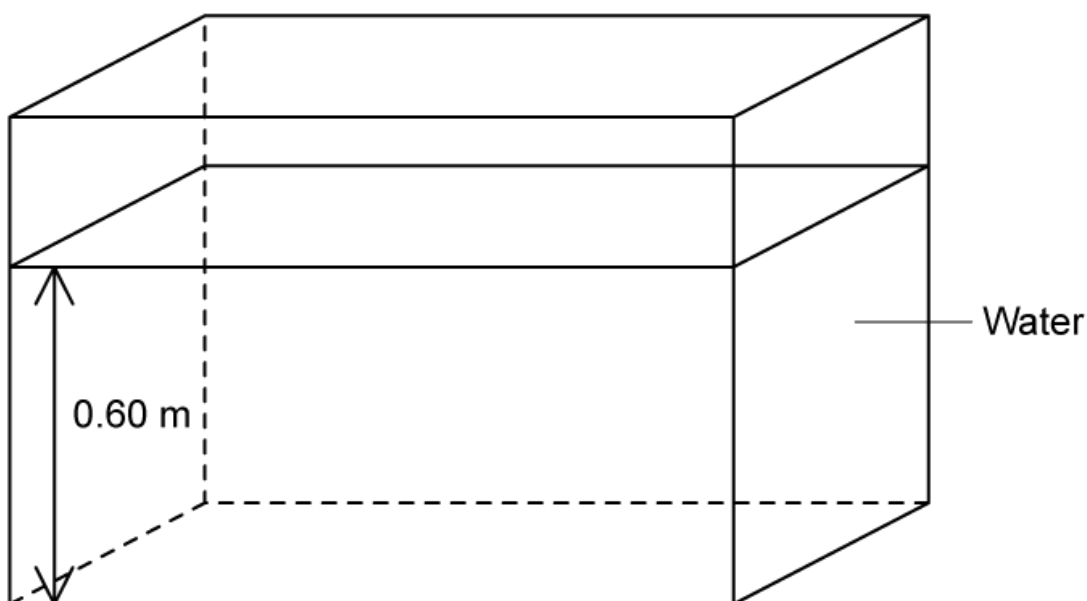


[1 mark]

Question 5**Extended tier only**

For the tank of water in the diagram below, which value gives the pressure on the base of the tank due to the water?

The density of water = 1000 kg/m^3



- A. 5000 Pa
- B. 5500 Pa
- C. 5880 Pa
- D. 6570 Pa

[1 mark]