



EXAM PAPERS PRACTICE

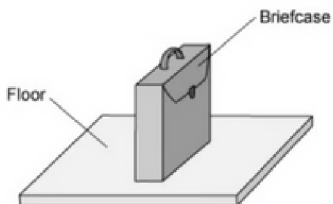
Pressure

Question Paper

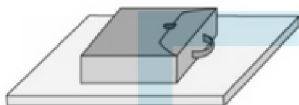


Question 1

A briefcase, with flat, rectangular sides rests on the floor as shown in the diagram.



The briefcase is now turned so that it rests with its large, flat side on the floor.



How has the change affected the force on the floor, and the pressure exerted by the briefcase on the floor?

| | Force | Pressure |
|---|-----------|-----------|
| A | unchanged | decreased |
| B | unchanged | unchanged |
| C | decreased | decreased |
| D | decreased | unchanged |

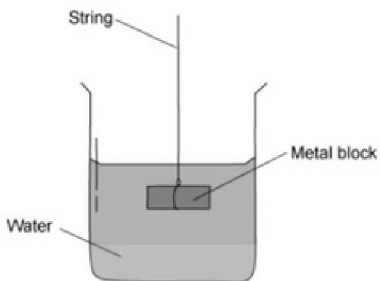
[1 mark]



Question 2

A small metal block is suspended under the surface of a beaker of water by a string.

The metal block experiences a pressure exerted by the liquid.



What would increase the pressure exerted on the metal block?

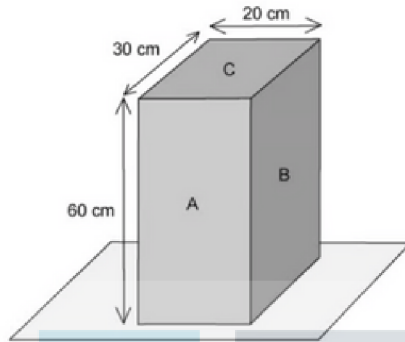
- A. increasing the surface area of the stone
- B. using a liquid with a lower density
- C. increasing the mass of the metal block
- D. lowering the metal block deeper into the liquid

[1 mark]



Question 3

A wooden block rests on a table.



On which surface should the block be laid to produce the largest pressure on the table?

- A. A
- B. B
- C. C
- D. Any side, they will all produce the same pressure

[1 mark]

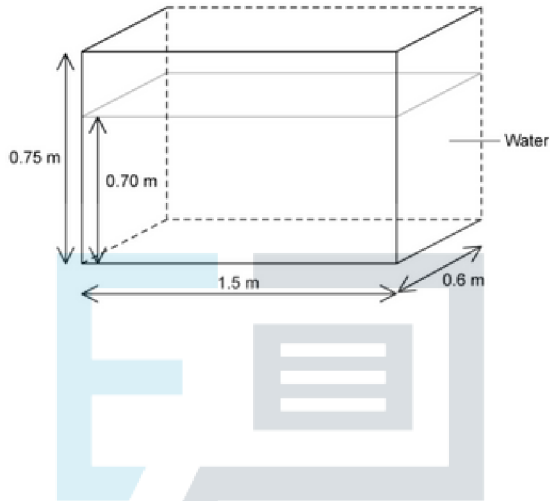


Question 4

Extended

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



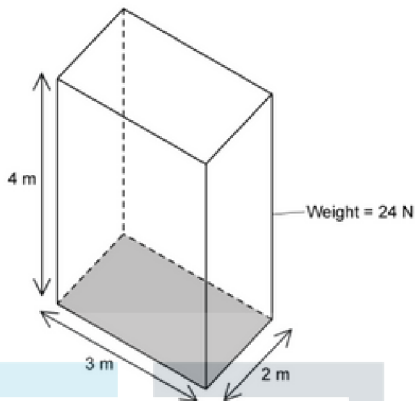
- A. 6500 Pa
- B. 6900 Pa
- C. 7400 Pa
- D. 7900 Pa

[1 mark]



Question 5

What pressure does the object in the diagram below exert on the ground beneath it?



- A. 4.0 Pa
- B. 6.0 Pa
- C. 12 Pa
- D. 24 Pa

[1 mark]