



SCIENCE CH:11- FORCE AND PRESSURE

Name: _____

Date: _____

Class: VIII Sec: ____

I Multiple Choice Questions

1. During dry weather, while combing hair, sometimes we experience hair flying apart. The force responsible for this is
(a) force of gravity. (c) force of friction.
(b) electrostatic force. (d) magnetic force.
2. Two objects repel each other. This repulsion could be due to
(a) frictional force only
(b) electrostatic force only
(c) magnetic force only
(d) either a magnetic or an electrostatic force
3. Which one of the following forces is a contact force?
(a) force of gravity (c) magnetic force
(b) force of friction (d) electrostatic force
4. A brick is kept in three different ways on a table as shown below. The pressure exerted by the brick on the table will be:



A



B



C

- (a) maximum in position A (c) maximum in position C
(b) maximum in position B (d) equal in all cases.

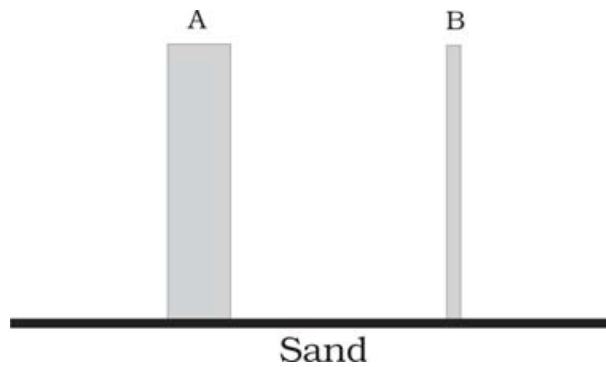
II Answer the following:

5. Two persons are applying forces on two opposite sides of a moving cart. The cart still moves with the same speed in the same direction. What do you infer about the magnitudes and direction of the forces applied.
6. Two thermocol balls held close to each other move away from each other. When they are released, name the force which might be responsible for this phenomenon. Explain.
7. A man is pushing a cart down a slope. Suddenly the cart starts moving faster and he wants to slow it down. What should he do?
8. An archer shoots an arrow in the air horizontally. However, after moving some distance, the arrow falls to the ground. Name the initial force that sets the arrow in motion. Explain why the arrow ultimately falls down.



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9. It is difficult to cut cloth using a pair of scissors with blunt blades. Explain.
10. Two rods of the same weight and equal length have different thickness. They are held vertically on the surface of sand as shown in the following figure. Which one of them will sink more? Why?



11. It is much easier to burst an inflated balloon with a needle than by a finger. Explain.
12. Two women are of the same weight. One wears sandals with pointed heels while the other wears sandals with flat soles. Which one would feel more comfortable while walking on a sandy beach? Give reasons for your answer.