

L-11

Force and Pressure

1) Write one word for the following sentences.

- a) A pull or a push on an object is called _____.
- b) A force exerted by a magnet _____.
- c) A force acting on a unit area of a surface _____.
- d) A pressure exerted by air _____.

2) Suppose a man is standing behind a car. Does the man exert the force on the car?



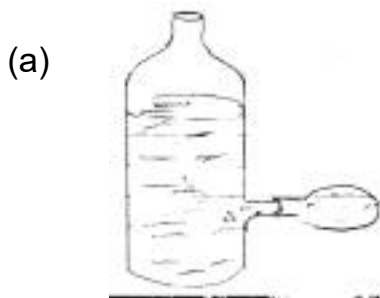
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3) If the members of two teams, in a game of tug-of-war, are trying to pull the rope in their respective directions and the rope does not move. Which team pulls with more force.



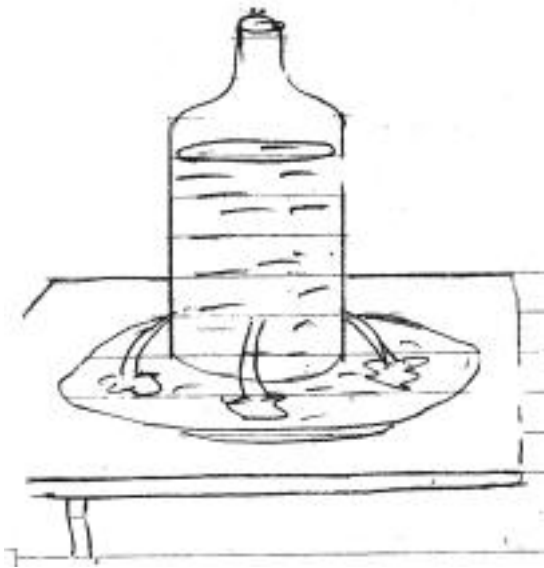
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4) In the figures shown below, what conclusion can you draw about the pressure exerted by liquids.



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(b)



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5. A force exerted by a magnet on another magnet is
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|----------------------|---------------------|
| a) contact force | b) Frictional force |
| c) Non contact force | d) Muscular force |
- 6) The weight of air in a column of the height of the atmosphere and area $10\text{cm} \times 10\text{cm}$ is as large as
- | | |
|------------|-------------|
| a) 1 Kg. | b) 10 kg. |
| c) 100 kg. | d) 1000 kg. |
- 7) When air is filled in a container, air
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|---------------------------------|----------------------------------|
| a) Exert pressure at the bottom | B) Exert pressure on upper side. |
| c) Exert pressure on the walls | d) Non of these |
- 8) The shoulder bags are provided with broad straps.
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|-----------------------------|------------------------|
| a) To decrease the pressure | b) To exert more force |
| c) To increase the pressure | d) None of these. |