Name: _____ Date: _____

Force and Pressure

Q1. Why does a sharp knife cut better than a blunt knife?

Ans. _____

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Q2. What is meant by atmospheric pressure?

Ans. _____

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Q3. Give two examples of contact forces.

Ans. _____

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Q4. A blacksmith hammers a hot piece of iron while making a tool. How does the force due to hammering affect the piece of iron?

Ans. _____

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Q5. What is meant by a non-contact force? Give an example.

Ans. _____

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Education with Fun

Force and Pressure

Q1. Why does a sharp knife cut better than a blunt knife?

Ans. Lesser the area, larger the pressure for the same force applied. Therefore it is easier to cut with sharp knives than blunt ones, with same force.

Q2. What is meant by atmospheric pressure?

Ans. The atmospheric air extends up to many kilometres above the surface of the earth. The pressure exerted by this air is known as atmospheric pressure.

Q3. Give two examples of contact forces.

Ans. The examples of contact forces are:

i. Muscular force

ii. Frictional force

Q4. A blacksmith hammers a hot piece of iron while making a tool. How does the force due to hammering affect the piece of iron?

Ans. When a blacksmith hammers a hot piece of iron, he uses his muscular force. This muscular force changes the shape of the iron.

Q5. What is meant by a non-contact force? Give an example.

Ans. A force that can be exerted by an object even from a distance is called a non-contact force. The force exerted by a magnet is an example of a non-contact force.