

Name: _____ Date: _____

Friction

Q1. Why is it difficult to walk on a well-polished floor?

Ans. _____

Q2. Why is it difficult to walk on a smooth and wet floor?

Ans. _____

Q3. Can we reduce friction to zero by polishing surfaces or using large amount of lubricants?

Ans. _____

Q4. Which device is used between the hubs and axles of bicycle wheels to reduce friction?

Ans. _____

Q5. What happens when you rub your hands vigorously for a few seconds? Why does this happen?

Ans. _____

Q6. Explain why sportsmen use shoes with spikes.

Ans. _____

Friction

Q1. Why is it difficult to walk on a well-polished floor?

Ans. A well-polished floor offers very less resistance. Therefore, it is difficult to walk properly on a well-polished floor.

Q2. Why is it difficult to walk on a smooth and wet floor?

Ans. A smooth and wet floor offers very less resistance. Therefore, it is difficult to walk properly on a smooth and wet floor.

Q3. Can we reduce friction to zero by polishing surfaces or using large amount of lubricants?

Ans. Friction can never be entirely eliminated. No surface is perfectly smooth. Some irregularities are always there.

Q4. Which device is used between the hubs and axles of bicycle wheels to reduce friction?

Ans. Ball bearing is used between hubs and the axles of ceiling fans and bicycles to reduce friction.

Q5. What happens when you rub your hands vigorously for a few seconds? Why does this happen?

Ans. If we rub our hands together for several seconds, then our hands feel warm. That warmth is caused by a force called friction.

Q6. Explain why sportsmen use shoes with spikes.

Ans. Sportsmen use shoes with spikes because spikes increase the force of friction between the shoes and the ground and give them a better grip while running.