

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Friction

Q1. Why it is convenient to pull the luggages fitted with rollers?

Ans. \_\_\_\_\_  
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Q2. What enables us to fix nails in a wall and knots to be tied?

Ans. \_\_\_\_\_  
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Q3. What is a spring balance?

Ans. \_\_\_\_\_  
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Q4. How does a bicycle stop when its brakes are applied?

Ans. \_\_\_\_\_  
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## Friction

Q1. Why it is convenient to pull the luggages fitted with rollers?

Ans. Rolling reduces friction. It is always easier to roll than to slide a body over another. That is the reason it is convenient to pull the luggages fitted with rollers.

Q2. What enables us to fix nails in a wall and knots to be tied?

Ans. When we hammer a nail in the wall, it is the friction between the surface of nail and wall which holds the nail tightly in the wall. Without friction, nails could not be fixed in a wall to hold things.  
Friction enables knots to be tied in the ropes.

Q3. What is a spring balance?

Ans. Spring balance is a device used for measuring the force acting on an object. It consists of a coiled spring which gets stretched when a force is applied to it. Stretching of the spring is measured by a pointer moving on a graduated scale. The reading on the scale gives the magnitude of the force.

Q4. How does a bicycle stop when its brakes are applied?

Ans. We deliberately increase friction by using brake pads in the brake system of bicycles and automobiles. When we are riding a bicycle, the brake pads do not touch the wheels. But when we press the brake lever, these pads arrest the motion of the rim due to friction. The wheel stops moving.