

HW  
5.8.21

## Test Yourself

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(B) 13) The force which slows down an object by opposing the force of motion is called friction.

14) When we roll a ball it stops after some time. Why did it stop without even touching? It stopped because of friction. The friction was occurring in the opposite direction of the motion so it stopped the ball.

### Extra Q/Ans

Q.) Explain with example, how friction opposes motion?  
So when we are pushing a heavy box we require a lot of force is required for pushing it. After some time it stops. The friction acting in the opposite direction of the moving box stopped the box.

Q.) 'Friction always acts in a direction opposite to the direction of motion'. Justify this statement by giving an example.

If we stop pedalling a bicycle, it slows down and after travelling a certain distance it stops because of friction acting in the opposite direction.

Q.) How can you prove that friction produces heat? Give an example.

When we rub our palms it becomes warm, parts of machine get warm, etc.