

Ch-3

Ex-B

Q. (13) What do you understand by the term friction?

Ans * Friction is a force that opposes motion.

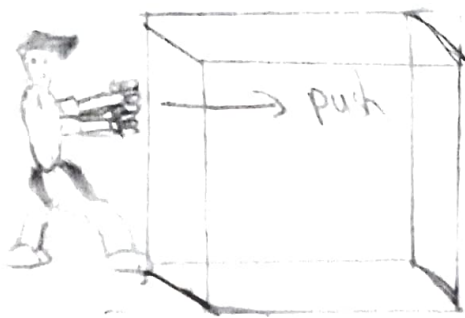
* Friction always acts in a direction opposite to the direction of motion.

(14) Give an example to illustrate the existence of force of friction.

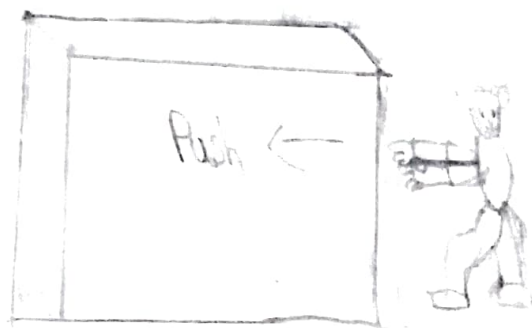
Ans- If we stop pedaling our bicycle, it gradually slows down and ultimately it stops after travelling a certain distance.

Q - Friction always acts in a direction opposite to the direction of motion. Justify the statement by giving an example?

Ans - If we move the box towards the left, the friction acts towards the right and if we move the box towards the right, the friction acts towards the left.



← Friction towards left



→ Friction towards right

Q-1 List the effects of friction

1 Friction opposes motion.

2 Friction always act in a direction opposite to the direction of motion.

3 Friction produces heat.

4 Friction causes wear and tear

Q-2 Explain with ~~ex~~ example how friction opposes motion.

Ans If we ~~roll~~ roll a ball on the ground, it gradually slows down and after travelling a certain distance, it stops. The reason is that the force of friction between the ball and the ground opposes the motion of the ball and bring it to stop.

Q. - How can you prove ~~heat~~ friction produce heat? Give examples?

Ans. - If we rub our palms they become warm, is due to friction. Friction produces heat.