

H.W

1. Define force.

Ans → The push or pull of an object is called force.

2. Give an example of force as a push or pull.

Ans → Force as push:

Ex - To open a door, we push it.

Force as pull:

Ex - We pull a door to open it.

3. Explain force as stretch with help of an example.

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Ans → A force applied as stretch can cause a change in size and shape of an object.
Ex - When a rubber string is stretched, its length increases.

TEST YOURSELF

B. Short/Long Answer Questions.

1. Name the term used for the push or pull.

Ans → Force is the term used for the push or pull.

2. Give one example each of a force as

- i) a push
- ii) a pull
- iii) a stretch
- iv) a squeeze

Ans → i) a push - To open a door, we push it.

ii) a pull - We pull a door to open it.

iii) a stretch - When a rubber string is stretched, its length increased.

iv) a squeeze - On squeezing a tube of gum or toothpaste, its shape changes.

3. Explain the meaning of the term force.

Ans → Force is a physical cause that changes or may tend to change the state of rest or the state of motion of an object.

4. What effect can a force have on a stationary body?

Ans → When a force is applied on a stationary body it begins to move.

EXTRA QUESTIONS

1. Describe the different effects of force with appropriate examples.

Ans → The different effects of force are:-

① A force can move a body originally at rest.

Ex- A car originally at rest when pushed, begins to move.

(ii) A force can stop a moving object.

Ex - A moving bicycle is stopped by applying ~~brak~~ the brakes.

(iii) A force can make a moving object to move faster.

Ex - The speed of a bicycle increases, when more force is applied on the pedal by the cyclist.

(iv) A force can slow down a moving body.

Ex - The speed of a moving vehicle is slow down by applying brakes.

(v) A force can change the direction of motion of a moving body.

Ex - A player kicks a moving football to change its direction of motion.

(vi) A force can change the shape or size of a body.

Ex - On squeezing a piece of rubber, its shape changes, on stretching a rubber string, its length increases.