

H/W

1/8/21

Ch-3

FORCE

B

Short/Long Question Answer

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

Ans - The term used for push or pull is force.

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 - To move a grass roller on a lawn, it is pulled by a gardener.

(iii) A stretch - Stretching a rubber string.

(iv) A squeeze - Change in shape of a sponge on squeezing.

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. Its S.I. Unit is Newton.

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

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

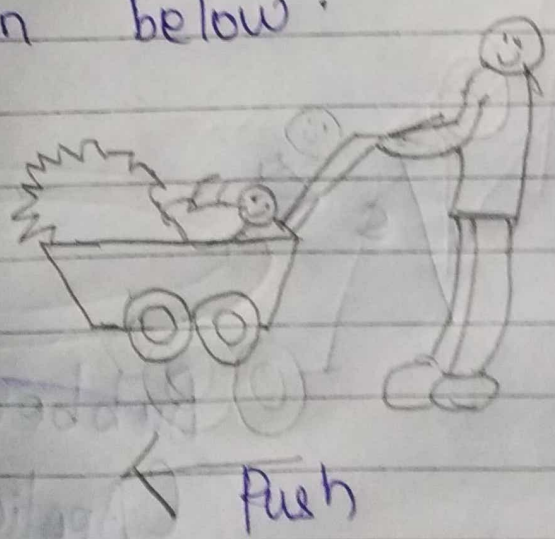
Extra Questions

Q1 Define force.

Ans - Force is a cause (a push or pull) which tends to result in the movement of a body.

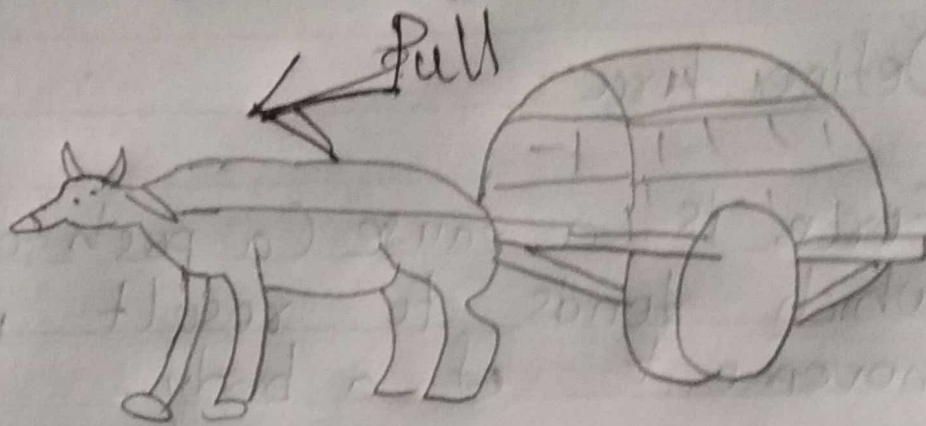
Q2 - Give an example of force as push and pull.

Ans - Force as push:
- To move a trolley (or a baby stroller), it is pushed by the caretaker as given below.



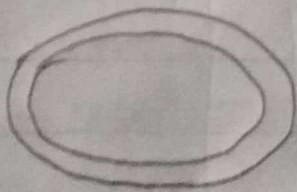
Force as pull:

To move a cart, it is pulled by a bull in the picture given below.



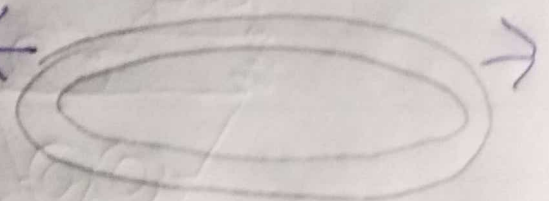
Q- Explain force as stretch with the help of an example.

1- When a rubber string is stretched, its length increases. And when it is left, it comes to its normal state.



Normal rubber string
(no force)

v/s



Rubber string
(Applied force)

Q- Describe the different effects of force with appropriate examples.

Ans- Effects of force are

(i) Force can move a body originally at rest.

Ex- A ball lying on the ground moves, when it is kicked.

(ii) A force can stop a moving body.

Ex- A moving cricket ball is stopped by the fielder when it catches it.

(iii) Force can make a moving body to move faster.

Ex- A Swing moves faster when a push is given.

(iv) Force can slow down a moving body

Ex- The speed of a moving vehicle is slowed down by applying force in the form of force.

(v) Force can change the direction of a moving body.

Ex- In tennis, the direction of the ball or cock is changed by hitting in the opposite direction.

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

Ex- A force on rubber piece changes its shape.