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## Excercise

1. Give two examples each of situations in which you push or pull to change the state of motion of objects.

Aliswei.

Two examples of push force are as follows:

- A heavy box at rest is pushed to move it from one room to another. This changes the state of motion of the box.
- A player pushes a football using his foot. This changes the state of motion of the ball.

Two examples of pull force are as follows:

- Rope is pulled to draw water from a well. This changes the state of motion of the water bucket.
- A drawer is pulled to open it. This changes the state of motion of the drawer.
- 2. Give two examples of situations in which applied force causes a change in the shape of an object.

  Answer:

Two examples of forces that cause a change in the shape of an object are as follows:

- Making of bread from dough
- Deformation of clay by pressing it between the hands.

3. Fill in the blanks in the follow	ing statemen	ts.
(a) To draw water from a well	we have to _	at the rope
(b) A charged body	_an uncharge	ed body towards it.
(c) To move a loaded trolley w	ve have to	it.
(d) The north pole of a magne	t1	the north pole of
another magnet.		
Answer:		
(a) To draw water from a well	we have to p	<u>ull</u> at the rope.

- (b) A charged body <u>attracts</u> an uncharged body towards it.
- (c) To move a loaded trolley we have to <u>push or pull</u> it.
- (d) The north pole of a magnet <u>repels</u> the north pole of another magnet.

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4. An archer stretches her bow while taking aim at the target. She then releases the arrow, which begins to move towards the target. Based on this information fill up the gaps in the following statements using the following terms.

muscular, contact, non-contact, gravity, friction, shape, attraction

- (a) To stretch the bow, the archer applies a force that causes a change in its \_\_\_\_\_.
- (b) The force applied by the archer to stretch the bow is an example of \_\_\_\_\_force.
- (c) The type of force responsible for a change in the state of

(d) While the arrow mov	n example of a ves towards its target, the nd that due to	forces acting on it	
Answer:	he archer applies a force		
(b) The force applied by example of <u>muscular</u> for	the archer to stretch the rce.	bow is an	
( )	sponsible for a change in n example of a <u>contact</u> fo		
(d) While the arrow mov are due to <u>gravity</u> and the	ves towards its target, the hat due to friction of air.	forces acting on it	
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