

Ans 1 It will show extension

Ans 2 No, it will not move

Ans 3 ① Electrostatic force

② Gravitational force

③ Magnetic force

Ans 4 The resistance of any physical object to any change in its velocity is called inertia

Ans 5 When it is equal to 1 Kg meter per second square

Ans 6 When a bowler throw the ball towards the batsman and then the batsman apply force on ball using bat he will be able to change ball's direction using force

Ans 7 The force of attraction acting between all matter is called Gravitational force. Isaac Newton was the scientist who discovered it.

Ans 8 ① Balanced forces - Force acting on an object which does not change the state of rest of it are called balanced forces.

② Unbalanced forces - When two forces acting on an object in which one force is greater than other this is called unbalanced force.

Ans 9 If we kick a stationary football kept on the ground, then the football starts moving. This shows how force moves a stationary object.

Ans 10 ① When we stretch a rubber band then its shape and size changes.

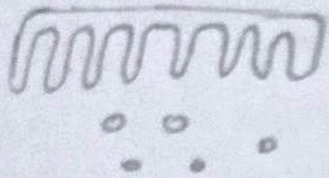
② When we apply force to wax then its shape and size changes.

③ When we apply force to clay then its shape and size changes.

Ans 11 The attractive and repulsive force between two electrically charged object is called electrostatic force. It is a non contact force.

### Activity

Take a comb and some ripped pieces of paper and take it near to the pieces of paper. You will observe no attraction or repulsion because comb is uncharged. Now rub the comb with your dry hairs. Now take the comb near to the pieces of paper. You will observe that the pieces of paper sticks to the comb. This was due to electrostatic force.



Activity showing  
electrostatic force

