

HOME-ASSIGNMENT

Class - 8

1) Match the column:

- | | |
|------------------------|----------------------------------|
| a) Force | i) Contact force |
| b) Friction | ii) Measure of gravity on object |
| c) Gravity | iii) satellite orbiting earth |
| d) Weight | iv) action at a distance force |
| e) Newton | v) push and pull |
| f) spring balance | vi) attracting paper pins |
| g) Gravitational force | vii) unit of force |
| h) Magnetic force | viii) device to measure force |

2) Write the correct word by putting letters in correct sequence:

- i) Car: fuel:: Body:_____.
- ii) Weight: Newton:: Pressure:_____.

3) Fill in the blanks:

- i) Force that work on an object at rest are _____.
- ii) Force changes the _____ and _____ of an object in motion.
- iii) The invisible attraction that earth exerts on all sorts of matter is called _____ force.
- iv) To open a car door and get inside we must _____ the door.
- v) _____ is required to move the things.
- vi) Electrostatic force is an example of _____.
- vii) A batsman hits a cricket ball which then rolls on the level ground. After covering a short distance, the ball comes to rest. The ball stops due to_____.
- viii) Force has both magnitude and _____.
- ix) The strength of force is usually expressed by its _____.
- x) Push or pull on an object is known as _____.

4) Recognise which kind of force is imparted to the child in the following image?



5) Multiple Choice Questions

1. A ball rolling on the ground slows down and finally stops because

- (a) force
- (b) less force applied
- (c) friction
- (d) none of the above

2. The force involved in falling of an apple from a tree is known as?

- (a) magnetic force
- (b) electrostatic force
- (c) contact force
- (d) gravitational force

3. Which of the following is an example of a non-contact force?

- (a) The force exerted by us to lift a bucket
- (b) push a stationary car
- (c) The force exerted by magnets
- (d) Force due to friction

4. Which one of the following forces is a contact force?

- (a) force of gravity
- (b) magnetic force
- (c) force of friction
- (d) electrostatic force

5. Opening the door is an example of which type of force?

- (a) contact force
- (b) spring force
- (c) non-contact force

(d) magnetic force

6. Name the force used in removing iron scrap from a heap of mixed scrap.

(a) Magnetic Force

(b) Electrostatic force

(c) Gravitational force

(d) Friction Force

7. When two forces, applied on an object, are equal and opposite, then these forces

May move the object.

May stop a moving object.

May move the object and cause a change in its shape.

Do not move the object but may cause a change in its shape

6) JUMBLED WORD:

a) NITMGCEA

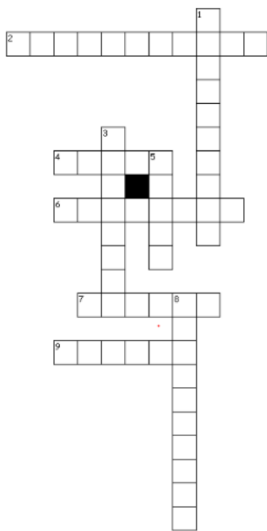
b) RCFEO

c) CTNACOT

d) GYATRVI

e) FOTCRNII

7) Crossword Puzzle



Across

2. The pressure exerted by air around us is known as _____ pressure
4. Push or pull on an object is known as _____
6. The force resulting due to the action of muscles is known as the _____ force
7. A _____ scientist of 17th century, invented a pump to extract air out of the vessel
9. Pressure exerted by water at the bottom of the container depends on the _____ of its column

Down

1. _____ force always acts opposite to the motion of the object
3. Force per unit area
5. Liquids exert _____ pressure at the same depth
8. gravity is an _____ force

8) 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 motion of the arrow is an example of a _____ force.
- (d) While the arrow moves towards its target, the forces acting on it are due to _____ and that due to _____ of air.