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Olympiads
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CREST Science Olympiad (CSO) Worksheet *for* Class 4



Topic

Types of Forces



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Worksheet on Types of Forces

1. Which force is responsible for the attraction or repulsion between magnets and iron objects?

- a. Muscular force
- b. Magnetic force
- c. Gravitational force
- d. Frictional force

2. A student rolls a ball on different surfaces and measures the distance it travels. Which surface is expected to make the ball roll the furthest?



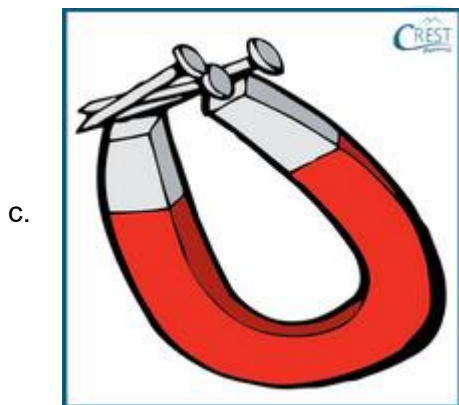
- a. Smooth surface
- b. Rough surface
- c. Soft surface
- d. Slippery surface

3. Match the following.

	Column I		Column II
1.	Gravitational Force	A.	The force that opposes the motion of objects and acts in the opposite direction.
2.	Frictional Force	B.	The force of attraction or repulsion exerted by magnets on magnetic objects.
3.	Muscular Force	C.	The force that pulls objects towards the Earth.
4.	Magnetic Force	D.	The force applied by muscles to perform physical activities

- a. 1:D, 2:A, 3:C, 4:B
- b. 1:C, 2:A, 3:B, 4:D
- c. 1:C, 2:A, 3:D, 4:B
- d. 1:B, 2:A, 3:D, 4:C

4. Which of the following activities demonstrates the application of muscular force?



5. How can you reduce the frictional force between two surfaces?

- Increasing the force applied
- Using rough surfaces
- Keeping the surfaces clean
- Adding oil or grease

Answer Key

1. b - Magnetic force is the force of attraction or repulsion exerted by magnets on magnetic objects such as iron.
2. a - A smooth surface offers less friction, allowing the ball to roll more freely with less resistance and covering a greater distance.
3. c -
Gravitational Force: The force that pulls objects towards the Earth.
Frictional Force: The force that opposes the motion of objects and acts in the opposite direction.
Muscular Force: The force applied by muscles to perform physical activities.
Magnetic Force: The force of attraction or repulsion exerted by magnets on magnetic objects.
4. a - Riding a bike requires the use of muscular force. When you ride a bike, you use the muscles in your legs to pedal and generate the force needed to move the bike forward.
5. d - Adding oil or grease to the surfaces can help reduce friction by creating a lubricating layer, allowing the surfaces to slide more easily against each other.

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