

St Mary's coed school harda

Class VIII

Subject science

Chapter 8

Friction

Q1 fill.in the blanks

- 1 Motion
- 2 Roughness
- 3 Heat
- 4 reduce
- 5 Less

Q2 MCQ

- 1 Static friction
- 2 Type of contact force
- 3 light and heat
- 4 opposite to
- 5 wet marble floor
- 6 higher friction

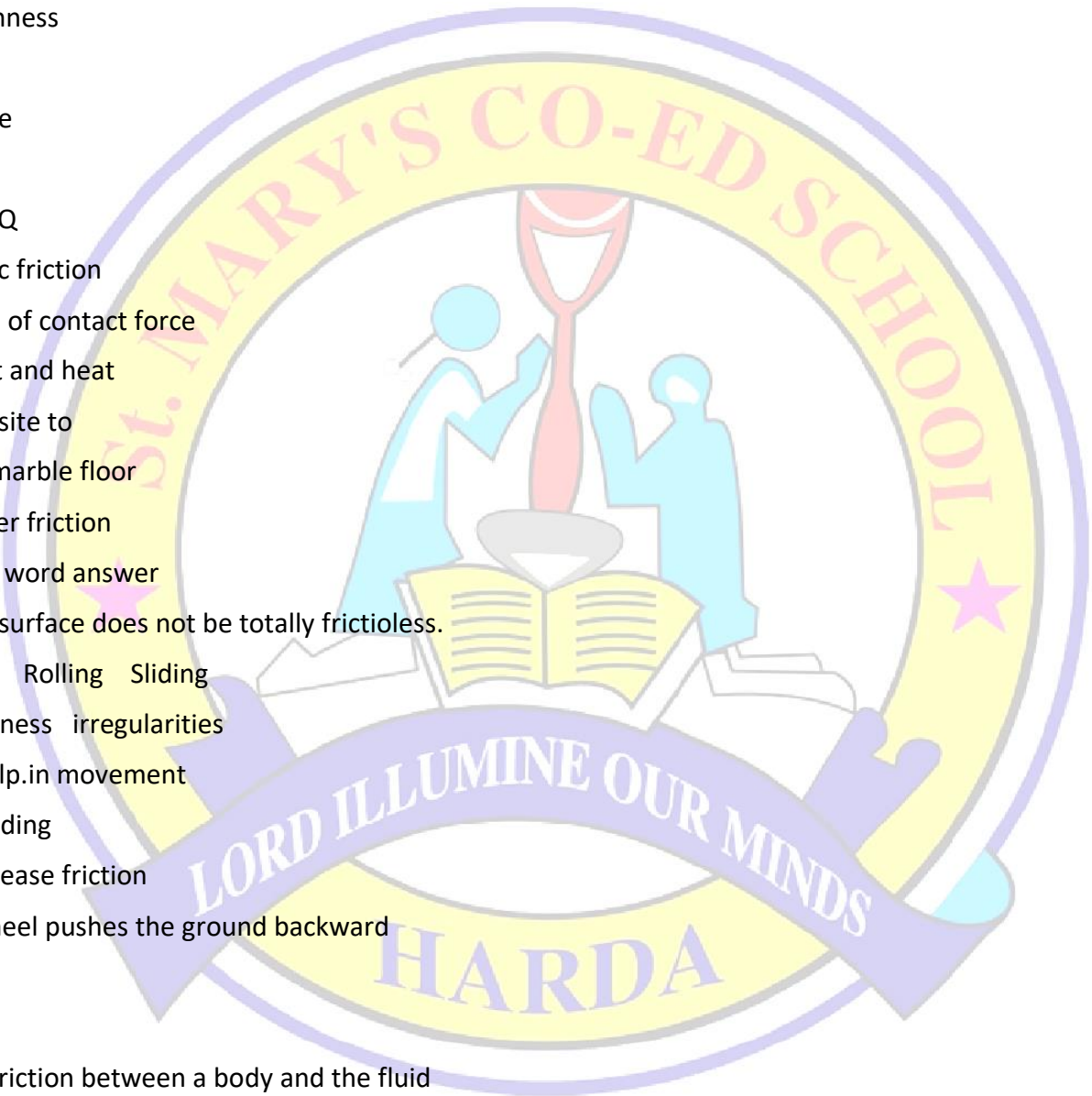
(Q3)One word answer

- 1 No ice surface does not be totally frictioless.
- 2 Static Rolling Sliding
- 3 Roughness irregularities
- 4 to help.in movement
- 5 surf riding
- 6 to increase friction
- 7 rear wheel pushes the ground backward
- 8 No
- 9 Rolling
- 10 The friction between a body and the fluid

Example surf riding

Q4 True and false

- 1 false
- 2 false
- 3 true
- 4 true
- 5 true
- 6 true



7 true

8 false

9 true

10 true

Q5 HoTS

1 In absence of friction we can not walk

We can not stand

We can not hold thing

2 Powder sprinkled on carrom board reduce friction

4 oil reduce friction

Q question from NCERT FOR PRACTICE

A

(Answer) rolling sliding static

B

(Answer) wet marble.floor dry marble floor newspaper towel

(C answer)

When a book slides on writing desk a friction acts between the book and surface of the desk the desk .the direction of friction force on the book is opposite to the direction of its motion and acts in upward direction

(D ANSWER)

It make difficult to walk because due to soapy water floor has less friction and surface is slippery

(F answer)

Heavy object produce more friction due to more friction seems have to apply more force

(G answer)

Because sliding object get less time to interlock into the contact point on the floor.so it is somewhat easier to move an object already in motion then to get it started.

(I answer)

Answer:

The objects moving in fluids must have a special shape to overcome the fluid friction acting on them. Efforts are therefore made to minimise the friction, so objects are given special shape having pointed fronts with little broader middle portion which gets tapered at the back called streamlined.

Answer the following .

Q1 what is friction explain static friction?

Answer

It is defined as the contact force which opposes the motion of an object

(Static friction)static friction acts on objects when one are both of them are resting .for example if you are hicking in the wood there as static friction between your shoes and the trial each time you put down your foot without this is static friction your feet would slip on out from under you making it difficult to walk.

Q2 state the difference between rolling and sliding friction?

Answer

Rolling friction _ friction between a body and the surface on which it's rolls

rolling friction is much weaker then sliding .example ball bearing let parts of a wheel or other machine roll rather than slide over on another.this makes the movements easier.

Sliding friction_ sliding friction is a friction acts on objects when they are sliding over each other or on a surface .its weaker then static friction.

(Q3) state the advantages and disadvantages of friction?

Answer

Advantages of friction

- 1 we can write on paper
- 2 Nails and screws are held in wood by friction
- 3 we can drive vehicles due to friction
- 4 we can stand due to friction

Disadvantages of friction

- 1 friction leads to waste of energy
- 2 Noice also produce in machine
- 3 engines of automobile consume more fuel.due to friction which is a loss of money.

(Q4) why do the sole of shoes of a football player have Spikes on them ?

Answer

The soles of the shoes of a football player have spike on them because shoes with spike to increase friction.between shoes and surface.so the shoes do not slip.

(Q5) The tyre of automobile have grooves with the design on them give reason?

Answer

The **tyres of vehicles have** grooves on their surfaces because of the increase of the friction. Explanation: When the friction increases, there are various chances of the vehicle falling down due to many **reasons**. Like, skidding or

(Q6) why is the rolling friction advantageous?

Answer

Rolling Friction Keeps Vehicles Moving

This force keeps the wheel or rollers from slipping against the roadway or race. This allows the roller balls inside a wheel bearing to turn and the wheels on a car or bike to move.



