



PHYSICS

BOOKS - MBD -HARYANA BOARD

FRICTION

Example

1. Fill in the following blanks with suitable words :

Friction always opposes.....between the surface in contact with each other .



[Watch Video Solution](#)

2. Friction depends on the _____ of surfaces.



[Watch Video Solution](#)

3. State true/false

Friction produces sound.



[Watch Video Solution](#)

4. State true or false

Sprinkling of powder on the carrom board increases friction.



[Watch Video Solution](#)

5. State true or false

Sliding friction is less than the static friction.



[Watch Video Solution](#)

6. Four children were asked to arrange forces due to rolling, static and sliding frictions in increasing order. Their arrangements are given below. Choose the correct arrangement.

- A. rolling, static, sliding
- B. rolling, sliding, static
- C. static, sliding, rolling
- D. sliding, static, rolling.

Answer:



Watch Video Solution

7. Alida runs her toy car on dry marble floor, wet marble floor, newspaper and towel spread on the floor. The force of friction acting on the car on different surfaces in increasing order will be

A. wet marble floor, dry marble floor, newspaper and towel

B. newspaper, towel, dry marble floor, wet marble floor.

C. towel, newspaper, dry marble floor, wet marble floor.

D. wet marble floor, dry marble floor, towel, newspaper.

Answer:



Watch Video Solution

8. Suppose your writing desk is tilted a little. A book kept on it starts sliding down. Show the direction of frictional force acting on it.



[Watch Video Solution](#)

9. You spill a bucket of soapy water on a marble floor accidentally. Would it make easier or more difficult for you to walk on the floor?

Why?



[Watch Video Solution](#)

10. Explain why sportsmen use shoes with spikes.



[Watch Video Solution](#)

11. Iqbal has to push a lighter box and Seema has to push a similar heavier box on the same floor. Iqbal will have to apply a larger force. State true or false with reasons.



[Watch Video Solution](#)

12. Explain why kinetic friction is less than static friction.



[Watch Video Solution](#)

13. Friction is both a friend and a foe. Why do you think so? Give examples to support your answer.



Watch Video Solution

14. Objects moving in fluids must have special shapes. Name this shape.



Watch Video Solution

15. While pushing a heavy box from one place to another in his house, Naresh noticed that it was difficult to take a stationary box from its resting position to moving position but it was easy to move that box with that speed. Why was it so?

- A. Sliding friction is less than static friction
- B. Static friction is less than sliding friction
- C. The weight of the box decreases
- D. None of the above

Answer:



Watch Video Solution

16. The moving ball on the floor stops after some time because of.....

- A. magnetic force
- B. electrostatic force
- C. frictional force

D. Both electrostatic force and frictional force.

Answer:



Watch Video Solution

17. It is difficult to walk on wet floor because:

A. Frictional force increases

B. Frictional force decreases

C. sometimes frictional force increases

D. it is impossible to apply more muscular force

Answer:



Watch Video Solution

18. You move a stone of glass on the cemented floor, marble floor, water, towel and on ice. The force of friction acting on the different surfaces in increasing order will be:

A. cemented floor, water, towel, marble
floor, ice

B. marble floor, cemented floor, water, ice,
towel

C. ice, water, marble, towel, cemented floor

D. water, ice, marble, cemented floor, towel

Answer:



Watch Video Solution

19. Static friction works when:

A. an attempt is made to bring an object
from motion to rest form

B. an attempt is made to bring an object
from rest form to motion

C. we do not want to bring any change in
the situation of an object

D. none of the above

Answer:



Watch Video Solution

20. Rolling friction is:

A. more than static friction

B. equal to static friction

C. less than static friction

D. sometimes more than static friction and
sometimes less than static friction.

Answer:





21. Four children were asked to arrange forces due to rolling, static and sliding friction in a decreasing order. The correct arrangement is :

- A. rolling, static, sliding
- B. rolling, sliding, static
- C. static, sliding, rolling
- D. sliding, static, rolling

Answer:



Watch Video Solution

22. Alida runs her car on the dry marble floor, wet marble floor, newspaper and towel spread on the floor. The force of friction acting on the car on different surfaces in decreasing order will be

A. wet marble floor, dry marble floor, newspaper and towel

B. newspaper, towel, dry marble floor, wet marble floor.

C. towel, newspaper, dry marble floor, wet marble floor.

D. wet marble floor, dry marble floor, towel, newspaper.

Answer:



Watch Video Solution

23. In which direction the force of friction acts? What if object does not move?



Watch Video Solution

24. Why is it difficult to move a bike with its brakes on ?



Watch Video Solution

25. Why a rolling ball stops after some time?

What happens to its cause when it completely stops?



Watch Video Solution

26. What is friction? In which direction does it apply?



Watch Video Solution

27. Wheels are made circular. Why ?



Watch Video Solution

28. Friction is a self adjusting force.



Watch Video Solution

29. Which is more smooth: wet muddy or cemented floor?



Watch Video Solution

30. What is the spring balance ?



Watch Video Solution

31. A horse pulling a cart has to apply a greater force to start the cart than to keep the cart in motion Why ?



Watch Video Solution

32. Give some examples of force of friction.



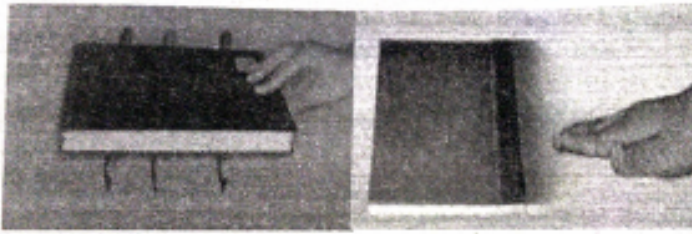
Watch Video Solution

33. Friction and Kinetic Friction



Watch Video Solution

34. Out of the given two situations, which one will be easy to push the object and why?



Situation-1

Situation-2



Watch Video Solution

35. Define friction. What is the cause of friction? Give factors affecting friction. Explain that friction is necessary evil.



Watch Video Solution

36. What is force of limiting friction and sliding friction?



Watch Video Solution