



## PHYSICS

### NCERT - NCERT Physics(Hinglish)

#### FRICTION

#### Exercise Fill In The Blank

1. (A) : Force of friction applied by ground on the wheels of a bicycle is always in the direction of motion of the bicycle .

(R) : Force of friction always opposes the relative motion between the surfaces in contact .



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2. Friction depends on the \_\_\_\_\_ of surfaces.



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3. Friction produces \_\_\_\_\_



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4. Sprinkling of powder on the carrom board.

\_\_\_\_\_ friction



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5. Assertion: It is difficult to move a heavy box by sliding whereas it becomes easier to move the same box when rollers are placed under it.

Reason:  $F_{\text{rolling}} < F_{\text{sliding}} < F_{\text{limiting static}}$

(Rolling friction It Sliding friction It limmiting static friction.



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## Exercise

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

A. rolling, static, sliding

B. rolling, sliding, static

C. static, sliding, rolling

D. sliding, static, rolling

**Answer: C**



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2. 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: A**



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3. 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.



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4. You spill bucket of soapy water on a marble floor accidentally. Would it make easier or more

difficult for you walk on the floor ? Why ?



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5. Explain why sportsmen use shoes with spikes.



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6. Iqbal has to push a lighter box and Seema has to push a similar heavier box on the same



floor. Who will have to apply a larger force and why?



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7. Explain why sliding friction is less than static friction.



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8. Give examples to show that friction is both a friend and a foe.



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**9.** Explain why objects moving in fluids must have special shapes.



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