



PHYSICS

BOOKS - PSEB

FRICTION

Exercise

1. Fill in the blanks. Friction opposes the between the surface in contact with each other.



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2. Fill in the blanks. Friction depends on the of surfaces.



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3. Fill in the blanks. Friction produces



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4. Fill in the blanks. Sliding friction is
than the static friction.



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

A. rolling, static , sliding

B. rolling, sliding, static

C. static, sliding, roling.

D. sliding, static, rolling

Answer:



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6. Alida runs her toy car on a dry marble floor, wet marble floor, newspaper and towel spread on the floor. The force of friction acting on the car on different surfaced 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:



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





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9. Explain why sportsmen use shoes with spikes.



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10. 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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11. Explain why sliding friction is less than static friction.



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



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13. Explain why objects moving in fluids must have special shapes.



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