









You are lonely on a frictionless surface and cannot exert any horizontal force against the surface. How can you get off ? (a) by jumping

- (b) by spitting / sneezing / whistling
- (c) by rolling body on surface
- (d) by running very fast on the running



Standing on frictionless ice. Arrow ill fly right. Man will go left.



Friction between the graphite in a pencil and a sheet of paper leaves a mark on the paper.



Friction between a bicycle brake pad and the rim of a wheel causes the wheel to stop turning.

Situation: Car is stationary, or at constant velocity. Horizontal forces: Zero (Acceleration / Deacceleration needs friction)

Horizontal forces: Zero (Acceleration / Deacceleration needs friction) Vertical forces: Zero (normal reaction from ground equals weight)







Ball bearings

- Less surface area results in less friction
- **Q** Rolling friction is much less than sliding friction
- Use in many machines, cars, etc.





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