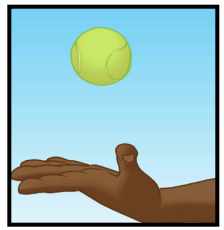
Quiz #5

1. When a car drives down the street, what force pushes it forward?

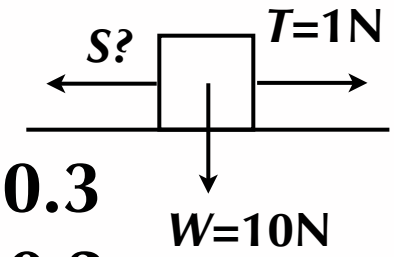
A) normal B) kinetic friction C) static friction

2. I throw a ball in the air. What forces are acting on the ball after it's left my hand, besides air resistance?



A) none
B) gravity
C) gravity & normal force
D) gravity & inertia

3. A W=10N block sits on a table as shown; it is being pulled by a 1N force but it isn't moving. What is the force of static friction on the block?



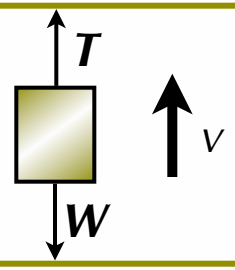
A) 1N B) 2N C) 3N D) 10N

4. Which of the following is true?

A) ice has a larger μ_K than sandpaper
B) static friction is always equal to μ_SN
C) μ_K is typically less than μ_S.

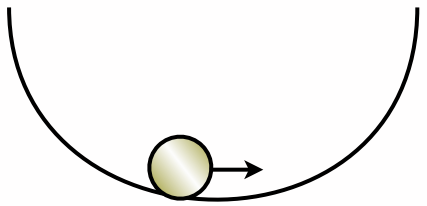
μ_S=0.3
μ_K=0.2

5. This elevator is moving upward and slowing down. Which is larger?



A) the tension in the cable B) the weight of the elevator
C) both are the same

6. A ball is rolling along the inside of a bowl. At the bottom of the bowl, which is larger?



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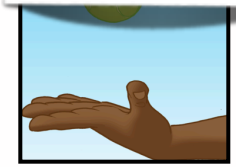
CBACBA



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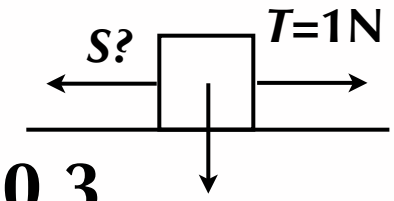

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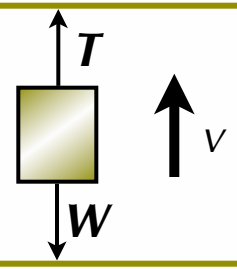

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