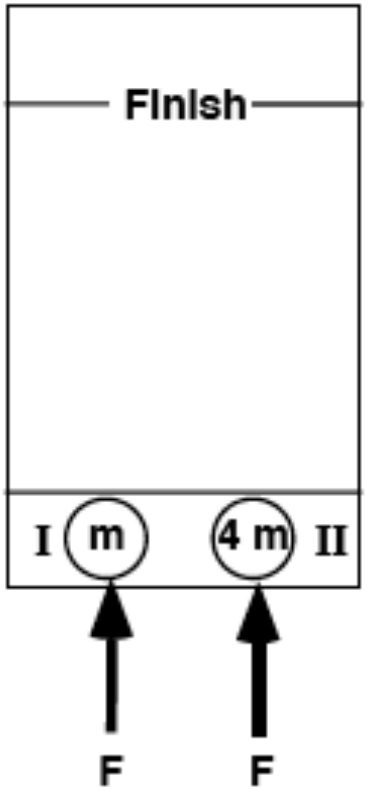
The diagram depicts two pucks on a frictionless table. Puck II is four times as massive as puck I. Starting from rest, the pucks are pushed across the table by two equal forces.



Which puck will have the greater KE upon reaching the finish line?

1. Puck I
2. Puck II
3. Both will have the same.
4. There is not enough information to decide.

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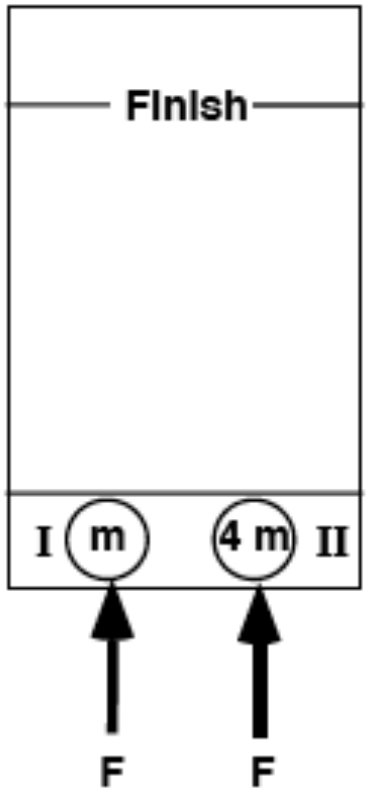
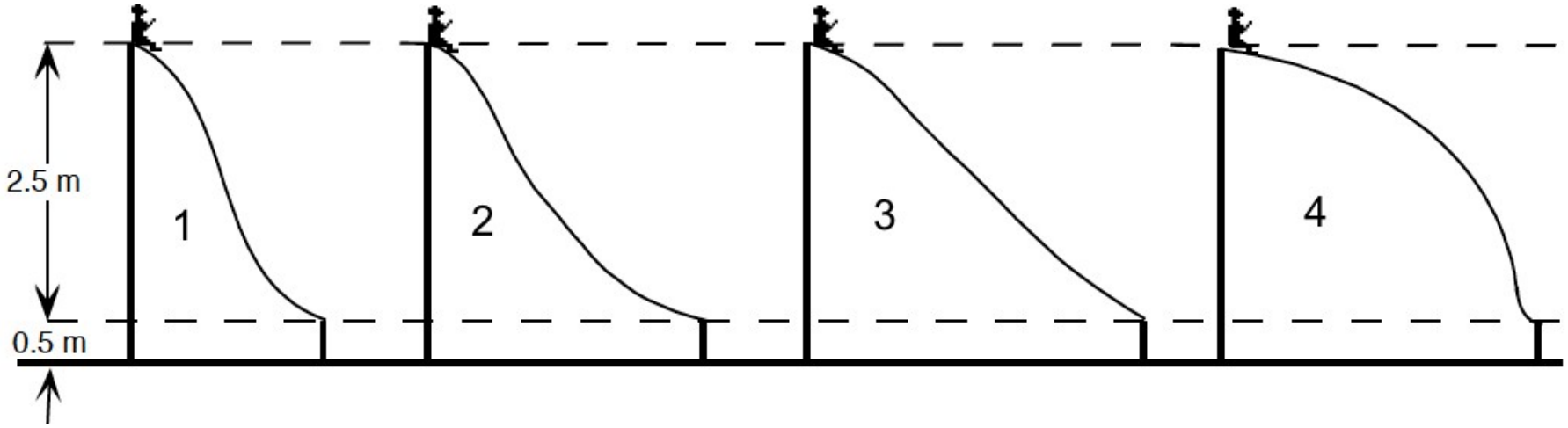


Which puck will have the greater momentum upon reaching the finish line?

1. Puck I
2. Puck II
3. Both will have the same.
4. There is not enough information to decide.

A young girl wants to select one of the (frictionless) playground slides illustrated below to give her the greatest possible speed when she reaches the bottom of the slide. Which should she choose?



5. It doesn't matter. It would be the same for each.