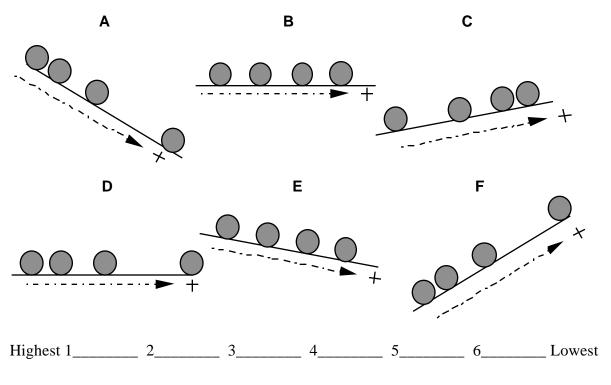
Ball Motion Diagrams—Velocity I 1

The following drawings indicate the motion of a ball subject to one or more forces on various surfaces from <u>left to right</u>. Each circle represents the position of the ball at succeeding instants of time. Each time-interval between successive positions is equal.

Rank each case from the highest to the lowest velocity based on the ball's last velocity using the coordinate system specified by the dashed arrows in the figures. Note: Zero is greater than negative, and ties are possible.



Or, all have the same velocity.

Please carefully explain your reasoning.

How sure were you of your ranking? (circle one)

 Basically Guessed
 Sure
 Very Sure

 1
 2
 3
 4
 5
 6
 7
 8
 9
 10

¹ D. Schramme, C. Fang, B. Speers