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Date 2/2/2023

### Quiz: Describing Motion

#### Matching

b. 1. Motion

speed that does not vary

d. 2. Distance

when an object changes position

e. 3. Displacement

speed at any given point in time

a. 4. Instantaneous speed

how far an object has moved

c. 5. Constant speed

distance and direction of an object's change in position

6. To skate 100 meters in 20 seconds, a skater must skate at a speed of 5 mps.

7. If a runner maintains a constant speed of 12 miles/hour, how long will it take to complete a half marathon race of 13.1 miles? 25 min.

8. If Johnny won a 300 meter race in 40 seconds, his speed would be 7.5 mps.

