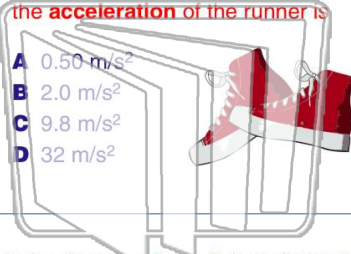




Name _____ Class _____ Date _____

1 A runner starts from rest and **accelerates uniformly** to a speed of 8.0 meters per second in 4.0 seconds. **The magnitude of the acceleration of the runner is**



- A 0.50 m/s²
- B 2.0 m/s²
- C 9.8 m/s²
- D 32 m/s²

2 A cart moving across a level surface accelerates uniformly at **1.0 meter per second² for 2.0 seconds**.

What **additional information** is required to **determine the distance traveled** by the cart during this 2.0-second interval?

- A coefficient of friction between the cart and the surface
- B mass of the cart
- C net force acting on the cart
- D initial velocity of the cart

3 In the diagram, a **force, F**, is applied to the handle of a lawnmower inclined at **angle q** to the ground. **The magnitude of the horizontal component of force F depends on**



4 A ball is thrown **straight up** with a speed of **12 meters per second** near the surface of Earth. **What is the maximum height reached by the ball?**



PREVIEW

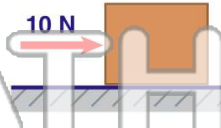
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7 According to the graph, as **time increases**, the **velocity of the object**



- A decreases
- B increases
- C remains the same

parallel to the surface is required to **set the block in motion**, **how much force is required to keep the block moving at constant velocity?**

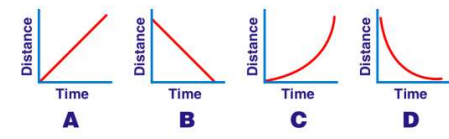


- A less than 10 N
- B greater than 10 N
- C 10 N

9 Which terms both represent **scalar quantities**?

- A displacement and velocity
- B distance and speed
- C displacement and speed
- D distance and velocity

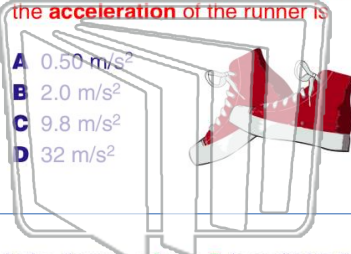
10 Which graph best represents the motion of an object whose **speed is increasing**?





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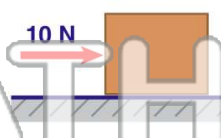
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