



Name _____ Class _____ Date _____

1 How fast is the boat traveling after 4 seconds?

- A about 4 m/s
- B about 3 m/s
- C about 2 m/s
- D about 1 m/s



2 Using the graph, **estimate how far** the boat will have gone at 5 seconds.

- A about 16 m
- B about 22 m
- C about 24 m
- D about 28 m



3 An object that is **moving** is an example of _____.

- A electrical energy
- B potential energy
- C kinetic energy



4 Top speeds of NASA rockets in orbit reach almost 7,200 miles per hour, or **120 miles per minute**. Using the formula below, determine the **speed** of the space shuttle **per second**.

- $\text{speed} = \frac{\text{distance}}{\text{time}}$
- A 1 miles per second
 - B 2 miles per second



PREVIEW

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$$\text{acceleration} = \frac{\text{final speed} - \text{initial speed}}{\text{time}}$$

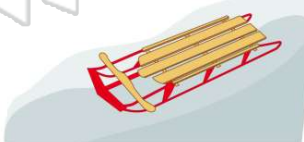
- A 2 seconds
- B 4 seconds
- C 6 seconds
- D 10 seconds

$$\text{acceleration} = \frac{\text{final speed} - \text{initial speed}}{\text{time}}$$

- A 10 mph
- B 20 mph
- C 30 mph
- D 40 mph

9 Sometimes measured in m/s² (meters per second per second) or mph/s (miles per hour per second), **acceleration** is the rate at which _____ **changes**.

- A time
- B distance
- C angle
- D velocity



10 If **motion** has **not** occurred, then the _____ between two objects has not changed.

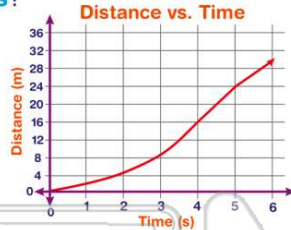
- A time
- B distance
- C angle
- D lighting



ANSWER KEY

How fast is the boat traveling after **4 seconds**?

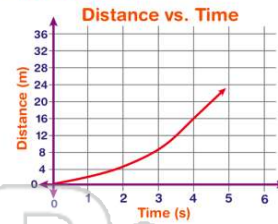
- A about 4 m/s
- B about 3 m/s
- C about 2 m/s
- D about 1 m/s



(a)

Using the graph, **estimate how far** the boat will have gone at **5 seconds**.

- A about 16 m
- B about 22 m
- C about 24 m
- D about 28 m



(c)

An object that is **moving** is an example of _____.

- A electrical energy
- B potential energy
- C kinetic energy
- D chemical



(c)

Top speeds of NASA rockets in orbit reach almost 7,200 miles per hour, or **120 miles per minute**. Using the formula below, determine the **speed** of the space shuttle **per second**.

- A 1 miles per second
- B 2 miles per second
- C 3 miles per second

$$\text{speed} = \frac{\text{distance}}{\text{time}}$$

(b)



PREVIEW

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- A 2 seconds
- B 4 seconds
- C 6 seconds
- D 10 seconds

- A 10 mph
- B 20 mph
- C 30 mph
- D 40 mph

Sometimes measured in m/s^2 (meters per second per second) or mph/s (miles per hour per second), **acceleration** is the rate at which _____ **changes**.

- A time
- B distance
- C angle
- D velocity



(d)

If **motion** has **not** occurred, then the _____ between two objects has not changed.

- A time
- B distance
- C angle
- D lighting

(b)