



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 The **average velocity** of the car during interval **DE** is

A 0 m/s  
B 10 m/s  
C 20 m/s  
D 40 m/s

2 The **acceleration** of the car at **t=60 seconds** is

A -20 m/s<sup>2</sup>  
B -10 m/s<sup>2</sup>  
C 5.0 m/s<sup>2</sup>  
D 10 m/s<sup>2</sup>

3 The car has the **largest displacement** during interval

A EG  
B DE  
C BC  
D AB

4 During which interval is the **net force on the car zero**?

A AB  
B BC  
C CD  
D DE

5

## PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

7 **circular path** will

A decrease  
B increase  
C remain the same

8 **cart** that is initially at rest and starts moving northward.

What is the **acceleration** of the cart at **t = 8 seconds**?

A 0 m/s<sup>2</sup>  
B 10 m/s<sup>2</sup>  
C 20 m/s<sup>2</sup>  
D -20 m/s<sup>2</sup>

9 The graph below represents the relationship between **velocity** and **time** for a **2.0-kilogram cart** that is initially at rest and starts moving northward.

In which **direction** is the cart traveling at **t = 4 seconds**?

A north  
B east  
C south  
D west

10 The graph below represents the relationship between **velocity** and **time** for a **2.0-kilogram cart** that is initially at rest and starts moving northward.

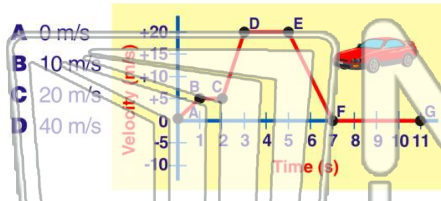
At which **value of t** will the cart be back at the **starting point**?

A t = 2.5 s  
B t = 8.5 s  
C t = 3 s  
D t = 5 s



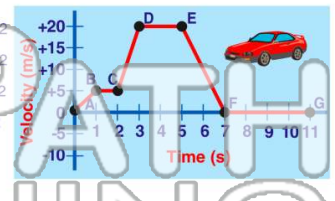
Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 The **average velocity** of the car during interval **DE** is



- A 0 m/s
- B -10 m/s
- C 20 m/s
- D 40 m/s

2 The **acceleration** of the car at **t=60 seconds** is



- A  $-20 \text{ m/s}^2$
- B  $-10 \text{ m/s}^2$
- C  $5.0 \text{ m/s}^2$
- D  $10 \text{ m/s}^2$

3 The car has the **largest displacement** during interval



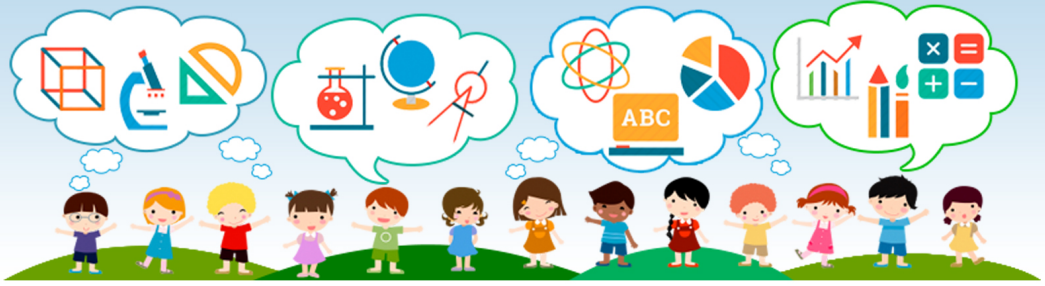
- A EG

4 During which interval is the **net force on the car zero**?



- A AB

5



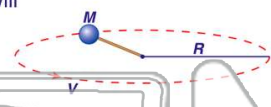
## PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

7

**circular path** will

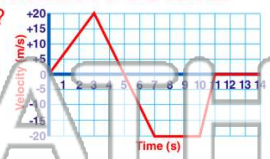
- A decrease
- B increase
- C remain the same



cart that is initially at rest and starts moving northward.

What is the **acceleration** of the cart at **t = 8 seconds**?

- A  $0 \text{ m/s}^2$
- B  $10 \text{ m/s}^2$
- C  $20 \text{ m/s}^2$
- D  $-20 \text{ m/s}^2$

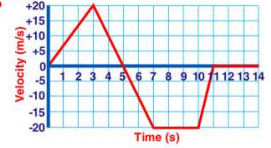


9

The graph below represents the relationship between **velocity** and **time** for a **2.0-kilogram cart** that is initially at rest and starts moving northward.

In which **direction** is the cart traveling at **t = 4 seconds**?

- A north
- B east
- C south
- D west



10

The graph below represents the relationship between **velocity** and **time** for a **2.0-kilogram cart** that is initially at rest and starts moving northward.

At which **value of t** will the cart be back at the **starting point**?

- A  $t = 2.5 \text{ s}$
- B  $t = 8.5 \text{ s}$
- C  $t = 3 \text{ s}$
- D  $t = 5 \text{ s}$

