

# Physics 1 Periodic 1 (Physics Grp.A (R. Gonzales ) [SCLPR])

Test On Motion in 1 Dimension

\* This form will record your name, please fill your name.

1

A car starting from rest, accelerates at  $2\text{m/s/s}$  for 10 seconds.

What is the velocity 1 second after starting?

(5 Points)

- 2 m/s
- 5 m/s
- 10 m/s
- 20 m/s

2

A car starting from rest, accelerates at  $2\text{m/s/s}$  for 5 seconds.  
How far does the car travel during this time?  
(5 Points)

- 5 m
- 10 m
- 25 m
- 45 m

3

A car starting from rest, accelerates at  $2\text{m/s/s}$  for 10 seconds.  
What is the velocity of the car at  $t = 10$  seconds?  
(5 Points)

- 2 m/s
- 5 m/s
- 10 m/s
- 20 m/s

4

A car starting from rest, accelerates at  $2\text{m/s/s}$  for 10 seconds.  
What is the average velocity of the car during this time?  
(5 Points)

- 5 m/s
- 10 m/s
- 15 m/s
- 20 m/s

5

A car starting from rest, accelerates at  $2\text{m/s/s}$  for 10 seconds.  
How far does the car travel between  $t = 1\text{ s}$  and  $t = 2\text{ seconds}$ ?  
(5 Points)

- 1 m
- 2 m
- 3 m
- 4 m

6

A duck walking with a constant velocity of  $1 \text{ m/s}$  , walks for 20 seconds.  
How far does the duck walk?  
(5 Points)

- 1 m
- 10 m
- 20 m
- 30 m

7

A duck walking with a constant velocity of  $1 \text{ m/s}$  , walks 20m.  
What is the acceleration of the duck?  
(5 Points)

- $0 \text{ m/s/s}$
- $2 \text{ m/s/s}$
- $5 \text{ m/s/s}$
- $10 \text{ m/s/s}$

8

A car with an initial velocity of 20m/s slows at a uniform rate to a stop in a distance of 100m.

What is the duck's acceleration?

(5 Points)

- 0 m/s/s
- 1 m/s/s
- 2 m/s/s
- 4 m/s/s
- 10 m/s/s

9

A car with an initial velocity of 20m/s slows at a uniform rate to a stop in a distance of 100m.

How. long does it take the car to stop?

(5 Points)

- 2 s
- 5 s
- 10 s
- 20 s

10

A puppy dog starting at rest, reaches a velocity of 10 m /s in 5 seconds.  
What is the puppy dog's acceleration?  
(5 Points)

- 2 m/s/s
- 5 m/s/s
- 10 m/s/s
- 50 m/s/s

11

A puppy dog starting at rest, reaches a velocity of 10 m /s in 5 seconds.  
How far does the puppy dog travel?  
(5 Points)

- 2 m
- 5 m
- 10 m
- 25 m

12

A BMW traveling with a constant velocity of  $20\text{m/s}$  passes by a police car at rest. At that moment, the police car accelerates at a constant rate of  $2\text{m/s}^2$ . How long will it take the police car to reach the BMW?  
(5 Points)

- 10 s
- 20 s
- 40 s
- 100 s

13

A BMW traveling with a constant velocity of  $20\text{m/s}$  passes by a police car at rest. At that moment, the police car accelerates at a constant rate of  $2\text{m/s}^2$ . How far has the police car traveled when it catches up to the BMW?  
(5 Points)

- 50 m
- 100 m
- 200 m
- 400 m

14

You drop your physics book from the top of a 45m tall building.  
How long does it take for the book to reach the ground?  
(5 Points)

- 1 s
- 2 s
- 3 s
- 4.5 s

15

You drop your physics book from the top of a 45m tall building.  
What is the velocity of the book just as it strikes the ground?  
(5 Points)

- 10 m/s
- 20 m/s
- 30 m/s
- 45 m/s



16

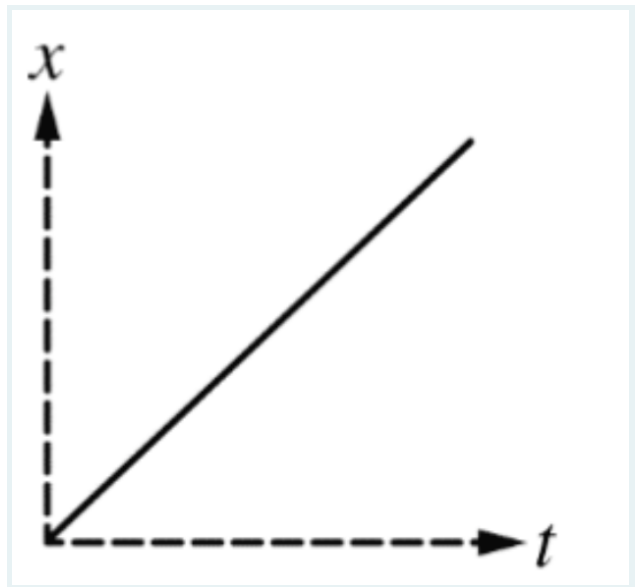
You throw your physics book straight up with a velocity of 10 m/s.  
What is the acceleration of the book at its highest position?  
(5 Points)

- 0 m/s/s
- 5 m/s/s down
- 10 m/s/s down
- 20 m/s/s down

17

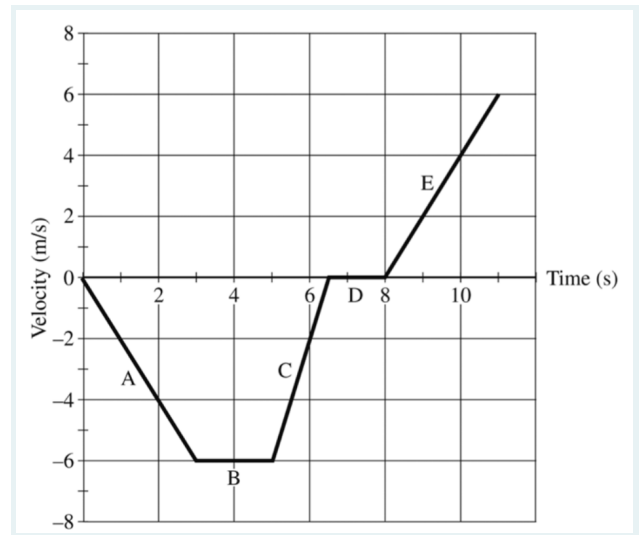
You throw your physics book straight up with a velocity of 10 m/s.  
How long does it take the book to reach its highest position?  
(5 Points)

- 1 s
- 2 s
- 4 s
- 10 s



The graph pictured is a position vs. time graph for an object moving along a straight line. Which of the following best describes the motion of this object?  
(5 Points)

- The object is at rest.
- The object has constant velocity.
- The object has constant non zero acceleration.
- The object is moving backwards in time.

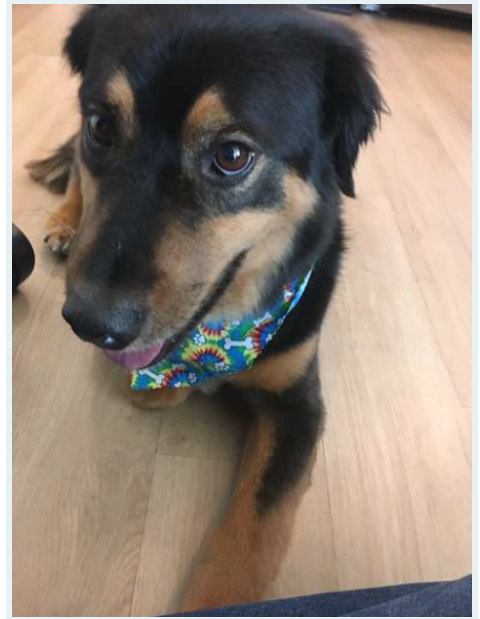


The graph shows the velocity vs. time for an object moving along a straight line. During which time interval is the object at rest?  
(5 Points)

- A
- B
- C
- D
- E

20

What is Sugar Bear's favorite food?  
(5 Points)



- Cherry tomatoes
- Cheerios
- Kibbles and Bits
- Bacon
- All of the above

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