

QUIZIZZ

Acceleration

10 Questions

NAME : _____

CLASS : _____

DATE : _____

1.



A golf ball accelerates off a tee at 15m/s^2 , changing its velocity from 0m/s to 50m/s down the fairway. How long did it take the golf ball to accelerate?

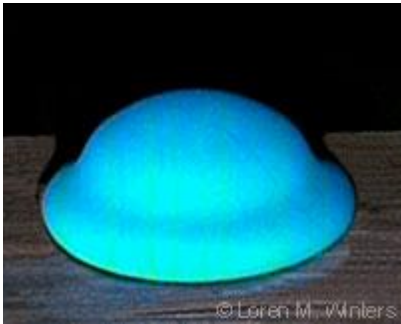
☐ a) 750 seconds

☐ b) 35 seconds

☐ c) 0.3 seconds

☐ d) 3.3 seconds

2.



A ball of clay is thrown at a wall at a velocity of 28.0m/s . After it hits the wall, it takes 0.020s to stop. What is the acceleration of the clay when it hits the wall?

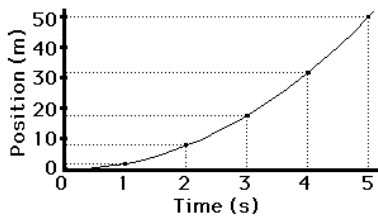
☐ a) 1400m/s^2

☐ b) -1400m/s^2

☐ c) 0.56m/s^2

☐ d) -0.56m/s^2

3.



The picture of the position vs. time graph shows an object that is...

☐ a) accelerating/speeding up

☐ b) moving at a constant speed

☐ c) not moving

☐ d) accelerating/slows down.

4. Acceleration is defined as the CHANGE in

- ☐ a) time it takes for one place to move to another place. ☐ b) velocity of an object.
- ☐ c) distance divided by the time interval ☐ d) velocity divided by the time interval

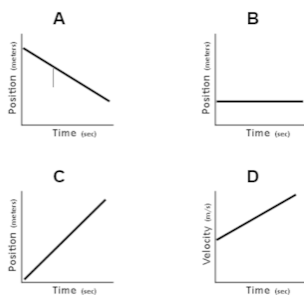
5. Why does a car accelerate as it round a corner at a constant speed?

- ☐ a) Its direction changes ☐ b) It doesn't
- ☐ c) It slows down ☐ d) Its speeds up

6. In each of the following cases, determine where the car has no acceleration ?

- ☐ a) A car shortly after a stoplight turns green. ☐ b) A car approaching a red light
- ☐ c) A car with the cruise control set at 80 km/h ☐ d) A car turning a curve at a constant speed

7.



Which graph shows the object standing still?

- ☐ a) A ☐ b) B
- ☐ c) C ☐ d) D

8. The SI unit for acceleration is

- ☐ a) mph ☐ b) ft/sec^2
- ☐ c) m/s^2

9. When are you undergoing an acceleration in a car?

- ☐ a) speed up ☐ b) slow down
- ☐ c) make turns ☐ d) All of the above

10. A negative acceleration means that your object is ____.

☐ a) not accelerating

☐ b) not moving

☐ c) speeding up

☐ d) slowing down

Answer Key

1. d

2. b

3. a

4. d

5. a

6. c

7. b

8. c

9. d

10. d