

**QUIZZ**Acceleration  
20 Questions

NAME : \_\_\_\_\_

CLASS : \_\_\_\_\_

DATE : \_\_\_\_\_

1. Acceleration: is the rate of change in \_\_\_\_\_.

speed

distance

velocity

displacement

2.



Describe the motion of the car.

The car has acceleration because it is at rest

The car does not have acceleration because it is at rest

The car has velocity because it is at rest

The car has acceleration because it is at rest

3. A bus is moving on horizontal road in straight line. Determine in which of the following cases the bus is speeding up?

The bus changes its velocity from 20 m/s to 15 m/s.

The bus changes its velocity from -20 m/s to -10 m/s

The bus changes its velocity from 0 m/s to 20 m/s

The bus changes its velocity from -15 m/s to 0 m/s

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

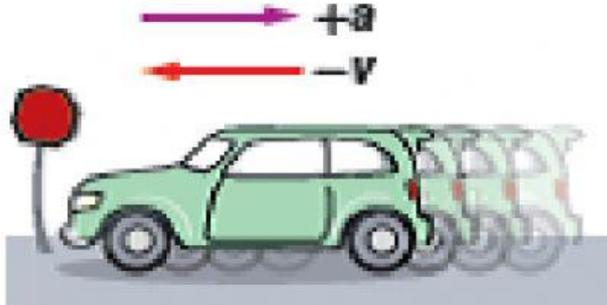
A car shortly after a stoplight turns green.

A car approaching a red light

A car with the cruise control set at 80 km/h

A car turning a curve at a constant speed

5.



Determine the motion of the car ?

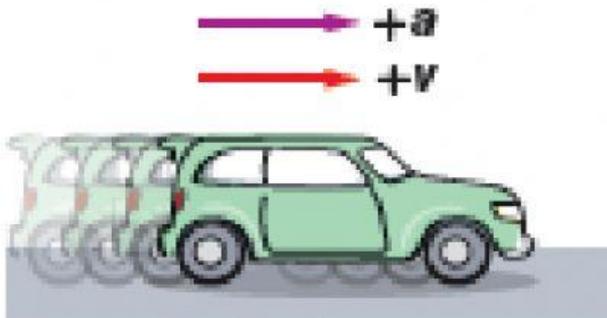
Speeding up

slowing down

at rest

constant velocity

6.



Determine the motion of he car.

speeding up

slowing down

at rest

moving at constant speed

7.



Determine the motion of the car.

at rest

moving at constant speed

speeding up

slowing down



Determine the motion of the car.

- at rest constant velocity
- speeding up slowing down



Determine the motion of the car.

- at rest moving at constant speed
- speeding up slowing down

10. The unit of acceleration is:

- $m/s^2$   $m/s$
- $m.s^2$   $m/s^3$

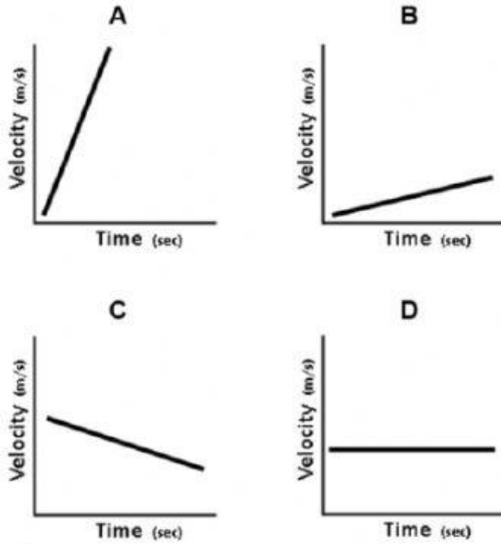
11. What is the formula to calculate speed?

- Speed = time/distance Speed = distance/time
- Speed = distance x time Speed = time x distance

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

- Its direction changes It doesn't
- It slows down Its speeds up

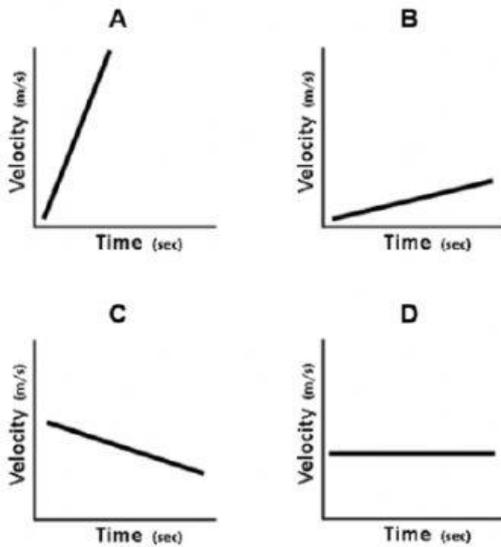
13.



Which graph represents zero acceleration (constant velocity)?

- A
- B
- C
- D

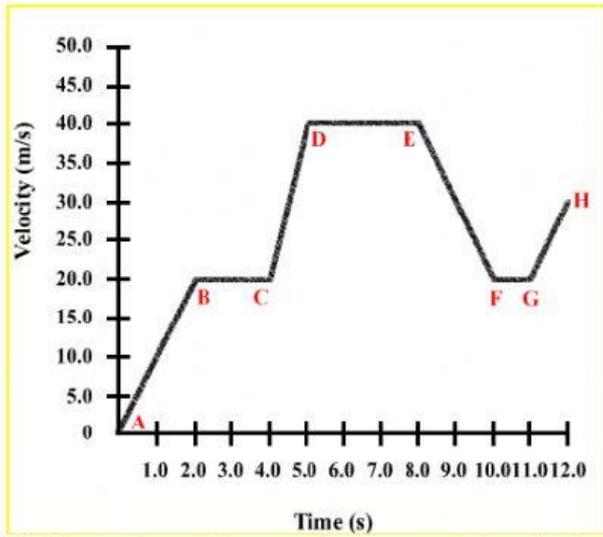
14.



Which graph represents the greatest acceleration?

- A
- B
- C
- D

15.



Which section of the graph shows acceleration?

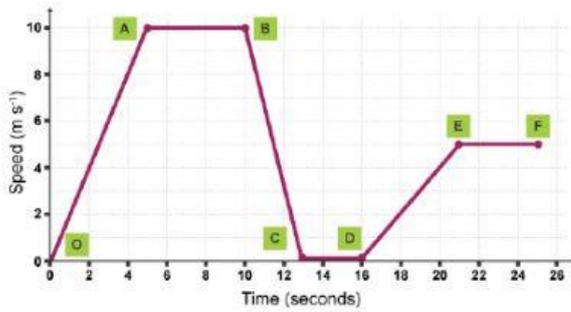
AB

BC

EF

FG

16.



What happened during C to D point?

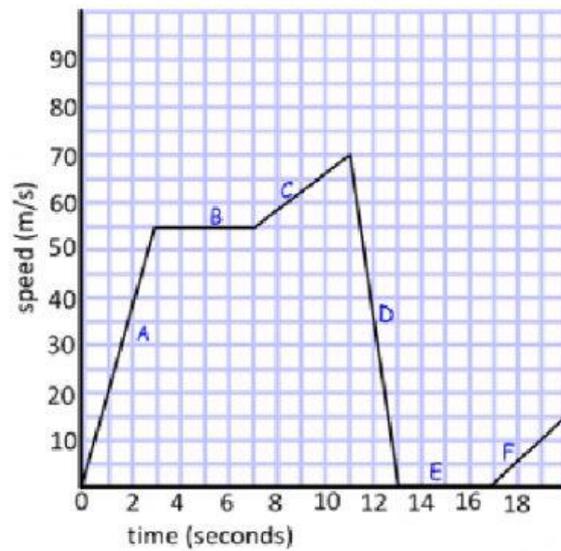
not moving

increasing speed at a constant rate

moving at a constant speed

moving at 0 m/s<sup>2</sup> acceleration

17.



What is happening at segment E?

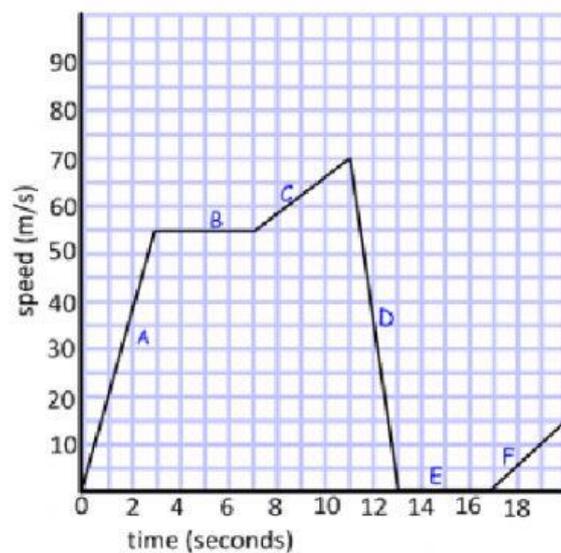
acceleration

deceleration

constant speed

no motion/object at rest

18.



What is happening at segment A?

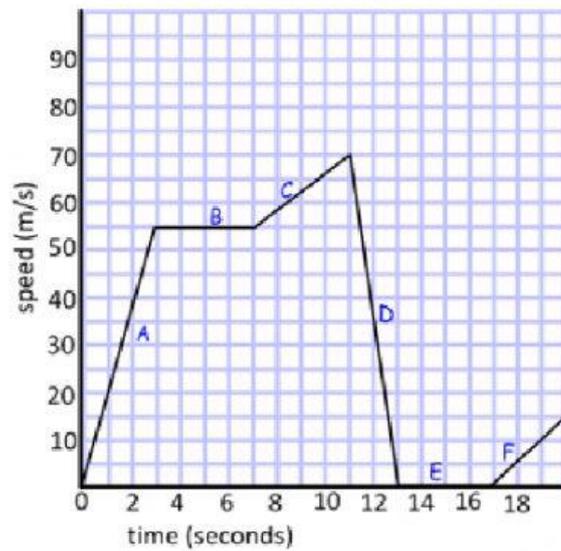
acceleration

deceleration

constant speed

no motion/object at rest

19.



What is happening at segment B?

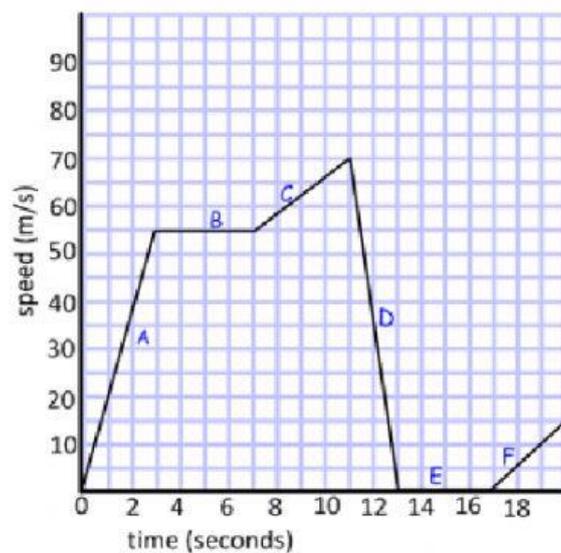
acceleration

deceleration

constant speed

no motion/object at rest

20.



What is happening at segment D?

acceleration

deceleration

constant speed

no motion/object at rest