

speed and velocity

Total questions: 21

Worksheet time: 16mins

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Name

Class

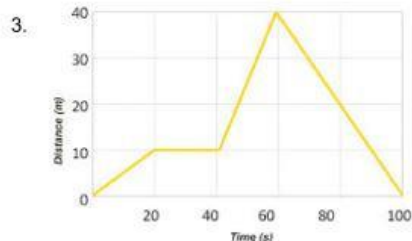
Date

1. The speedometer on your car tells you

- a) average velocity
- b) instantaneous velocity
- c) average speed
- d) instantaneous speed

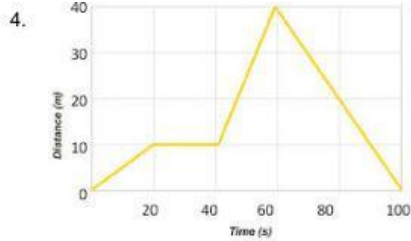
2. What two measurements are necessary for calculating speed?

- a) Mass and time
- b) Temperature and mass
- c) Mass and distance
- d) Distance and time



At 60 seconds, how far had this object traveled?

- a) 0 m
- b) 10 m
- c) 20 m
- d) 40 m



How long did it take this object to travel 10 m?

- a) 0 s
- b) 10 s
- c) 15 s
- d) 20 s

5. What is the speed of an object that travels 60 meters in 4 seconds?

- a) 240 m/s
- b) 15 m/s
- c) 0.067 m/s
- d) 15 mph

6. A measurement of how fast an object is moving

- a) Velocity
- b) Speed
- c) Vector
- d) Acceleration

7. A description of the speed and direction of an object's motion

- a) Velocity
- b) Speed
- c) Acceleration
- d) Vector

8. What is the speed of an object that travels 20 meters in 4 seconds?

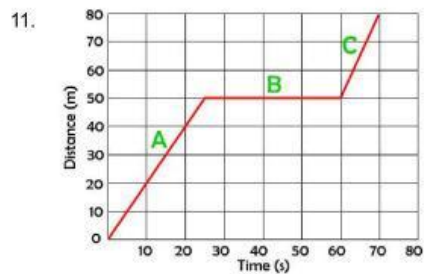
- a) 80 m/s
- b) 0.2 m/s
- c) 5 m/s
- d) 24 m/s

9. What is velocity?

- a) the quickness of an object
- b) the location of an object
- c) acceleration
- d) speed in a specific direction

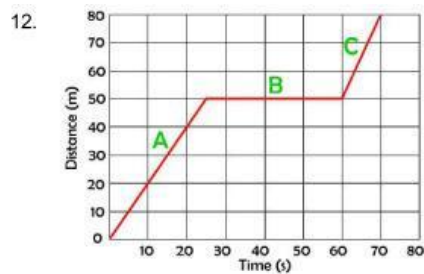
10. Velocity is both ____ and ____.

- a) speed , direction
- b) direction, mass
- c) volume, density
- d) direction, magnitude



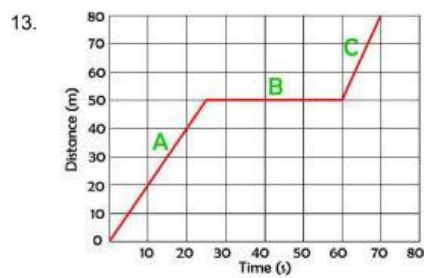
What is the speed of the object between 25 to 60 seconds?

- a) 4 m/s
- b) 2m/s
- c) 0 m/s
- d) 5 m/s



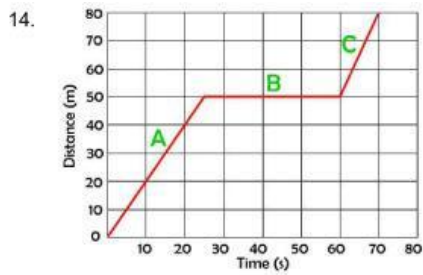
What is the speed of the object in section A?

- a) 0 m/s
- b) 30 m/s
- c) 0.5 m/s
- d) 2 m/s



In which section object is travelling fastest?

- a) A
- b) B
- c) C



In which segment the object stopped?

- a) A
- c) C

b) B

15. On a distance vs. time graph, the steeper the slope _____

- a) the slower the speed
- c) less acceleration

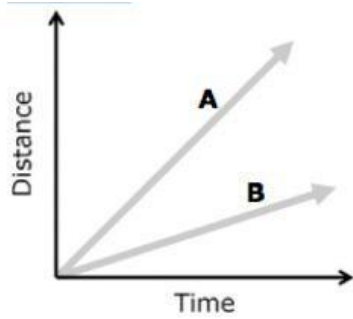
- b) the faster the speed
- d) greater acceleration

16. What does the slope of a position vs time graph tell you?

- a) Displacement
- c) Velocity

- b) Distance traveled
- d) Acceleration

17.

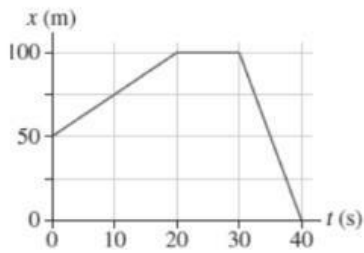


Which line represents an object moving at a faster speed?

a) A

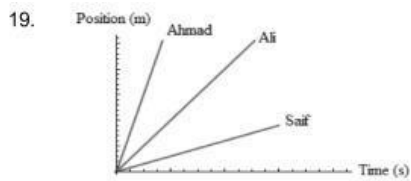
b) B

18.



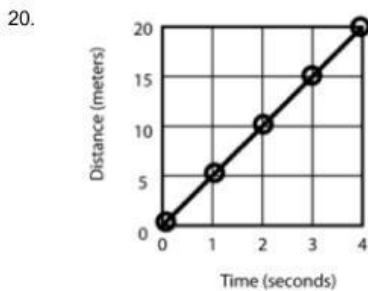
A motion of a car is represented by the position-time graph shown below. At what time was the car at position $x = 50$ m?

a) At $t = 0$ s and $t = 40$ sb) At $t = 0$ s and $t = 35$ sc) At $t = 30$ s and $t = 40$ sd) At $t = 20$ s and $t = 30$ s



Which of the following correctly compares the velocities represented by the graph below?

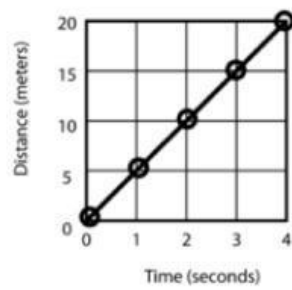
- a) $v(\text{saif}) > v(\text{Ali}) > v(\text{Ahmed})$
 b) $v(\text{Saif}) = v(\text{Ali}) = v(\text{Ahmed})$
 c) $v(\text{Ahmed}) = v(\text{Ali}) = v(\text{Saif})$
 d) $v(\text{Ali}) = v(\text{Ahmed}) = v(\text{Saif})$



What is this objects speed at 2 s?

- a) 5 m/s
 b) 5 s/m
 c) 20 m/s
 d) 20 s/m

21.



What is the speed of this object at 3 seconds?

- a) 5 m/s
- b) 45 m/s
- c) 5 s/m
- d) 45 s/m