

## speed and velocity

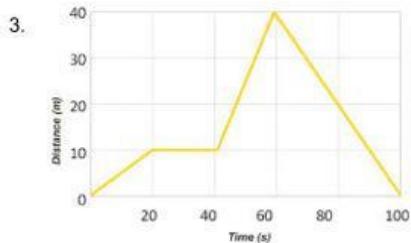
Total questions: 21

Worksheet time: 16mins

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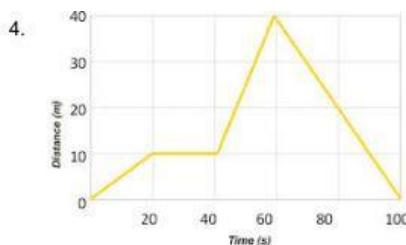
Name Class Date 

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?

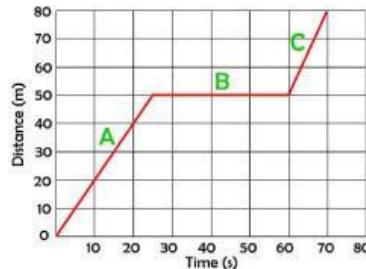
9. What is velocity?

- 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

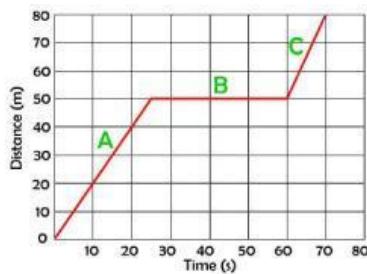
11.



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

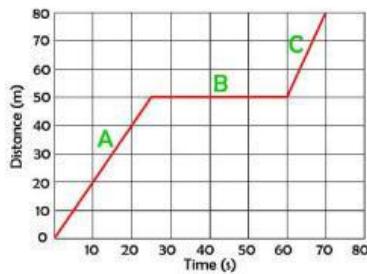
12.



What is the speed of the object in section A?

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

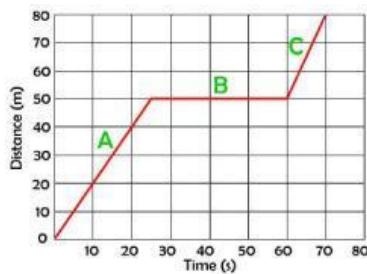
13.



In which section object is travelling fastest?

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

14.



In which segment the object stopped?

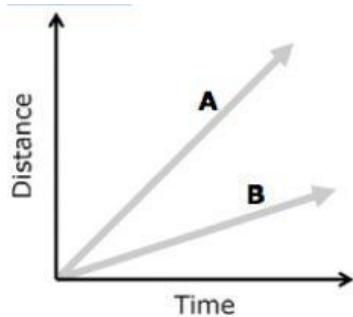
15. On a distance vs. time graph, the steeper the slope \_\_\_\_\_

- a) the slower the speed
- b) the faster the speed
- c) less acceleration
- d) greater acceleration

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

- a) Displacement
- b) Distance traveled
- c) Velocity
- d) Acceleration

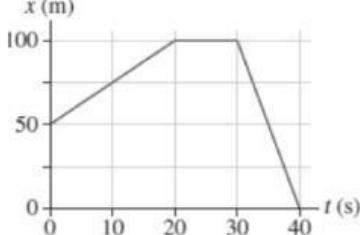
17.



Which line represents an object moving at a faster speed?

a) A      b) B

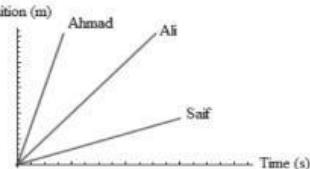
18.



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  $t = 40$  s  
b) At  $t = 0$  s and  $t = 35$  s  
c) At  $t = 30$  s and  $t = 40$  s  
d) At  $t = 20$  s and  $t = 30$  s

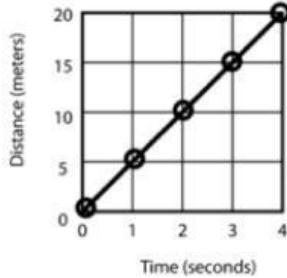
19.



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)  $v(\text{Ali}) = v(\text{Ahmed}) = v(\text{Saif})$

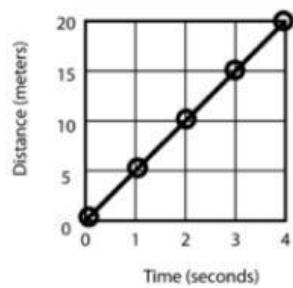
20.



What is this object's 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