

Speed Graphs

Total questions: 22

Worksheet time: 15mins

1. What is the correct formula for speed?
 - a) Speed = Direction / Time
 - b) Speed = Distance / Time
 - c) Speed = Time / Distance
 - d) Speed = Time / Direction
2. Which is a correct unit for distance?
 - a) kilograms
 - b) meter
 - c) liters
 - d) seconds
3. Which is a correct unit for time?
 - a) Celsius
 - b) second
 - c) Meter
 - d) Miles per hour
4. Which is a correct unit for speed?
 - a) miles per gallon
 - b) seconds per meter
 - c) second per meter
 - d) grams per cubic centimeter
5. In a Time - Distance graph, which variable is the independent variable?
 - a) Speed
 - b) Time
 - c) Distance
 - d) Graph
6. In a Time - Distance Graph, which variable is the dependent variable?
 - a) Speed
 - b) Time
 - c) Distance

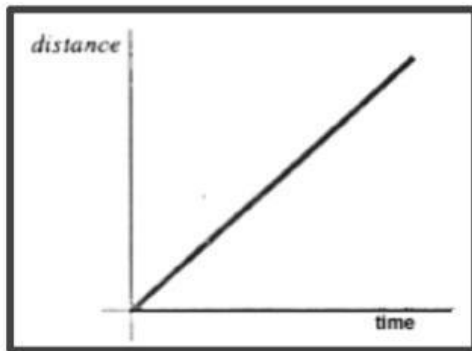
7. In a Time - Distance Graph, which variable is on the x-axis?

- a) Speed
- b) Time
- c) Distance

8. In a Time - Distance Graph, which variable is on the y-axis?

- a) Speed
- b) Time
- c) Distance

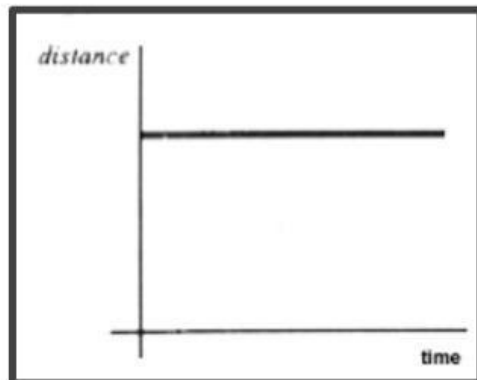
9.



What is a reasonable story for this graph?

- a) The airplane is stopped at the gate
- b) The boat is moving at a constant speed
- c) A student missed the bus so goes back home
- d) A car slows down to avoid an accident

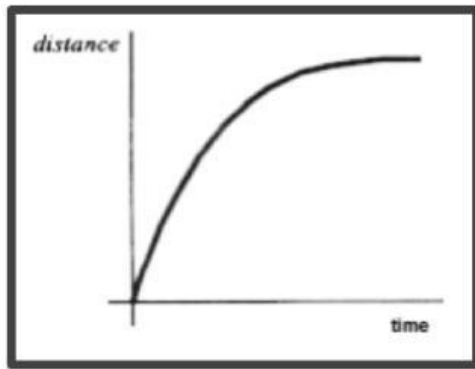
10.



What is a reasonable story for this graph?

- a) The airplane is stopped at the gate
- b) The boat is moving at a constant speed
- c) A student missed the bus so goes back home
- d) A car slows down to avoid an accident

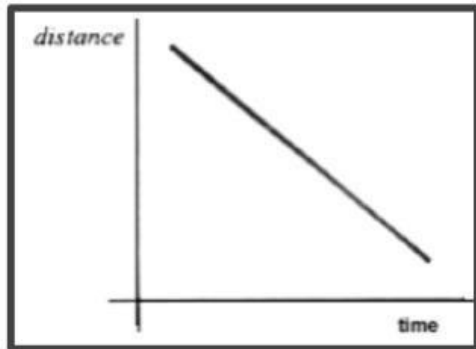
11.



What is a reasonable story for this graph?

- a) The airplane is stopped at the gate
- b) The boat is moving at a constant speed
- c) A student missed the bus so goes back home
- d) A car slows down to avoid an accident

12.



What is a reasonable story for this graph?

- a) The airplane is stopped at the gate
- b) The boat is moving at a constant speed
- c) A student missed the bus so goes back home
- d) A car slows down to avoid an accident

13. Speed is equal to

- a) Distance/Time
- b) Time/Distance
- c) Time x Distance
- d) Acceleration

14. If you travel 10 miles in 5 minutes, what is your speed?

- a) 10 mi/min
- b) 15 mi/min
- c) 50 mi/min
- d) 2 mi/min

15. What equation do I use to calculate time?

- a) $S = D/T$
- b) $T = D/S$
- c) $D=TS$

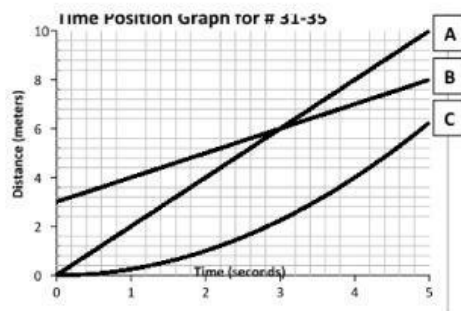
16. What equation do I use to calculate speed?

a) $S = D/T$

b) $T = D/S$

c) $D=TS$

17.



Which runner won the race?

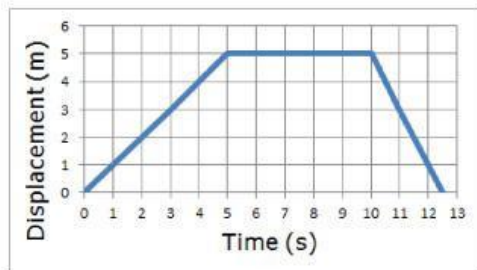
a) A

b) B

c) C

d) It was a tie

18.



According to the graph how far does the person travel in the first 5 seconds?

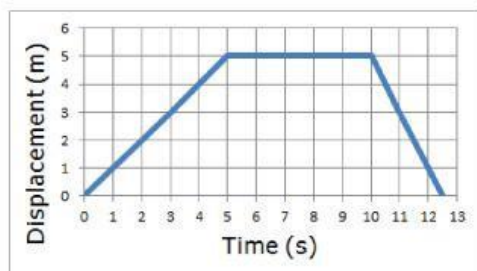
a) 2 m

b) 10 m

c) 0 m

d) 5 m

19.



What is the person doing from 5 seconds to 10 seconds?

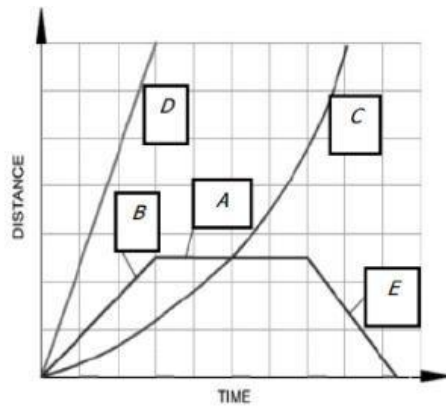
a) Walking

b) Running

c) Standing Still

d) Walking Fast

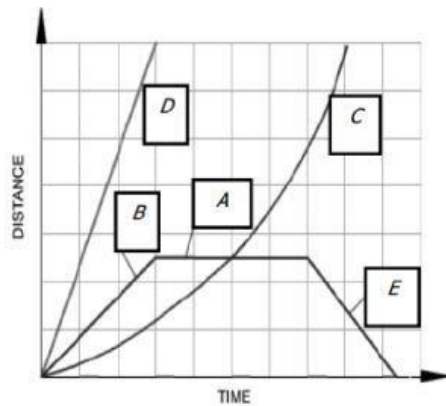
20.



What is happening at A?

- a) Stationary
- b) Accelerating
- c) Slower steady speed; moving away from the starting position
- d) Steady speed; returning to start position

21.



What is happening at E?

- a) Stationary
- b) Accelerating
- c) Fast steady speed; moving away from the starting position
- d) Steady speed; returning to start position

22.



Calculate these 3 car's speeds, then rank them in order of fastest to slowest, with 3 being the fastest car and 1 the slowest car.

Car A- distance: 4 meters, time: 2 sec

Car B- distance: 2 meters, time: 2 sec

Car C- distance: 8 meters, time: 2 sec

a) Car A= 1

Car B= 2

Car C = 3

c) Car A= 3

Car B= 1

Car C = 2

b) Car A = 2

Car B= 1

Car C= 3

d) Car A = 3

Car B= 2

Car C= 1