Describing Motion



Name :

Class :

No. :

Match the following

1. Write down the equation for acceleration in words

2. Which units do we usually use for acceleration (in physics lessons)?

3. Write down the equation for average speed in words.

4. In a distance-time graph, what does a steeper line represent?

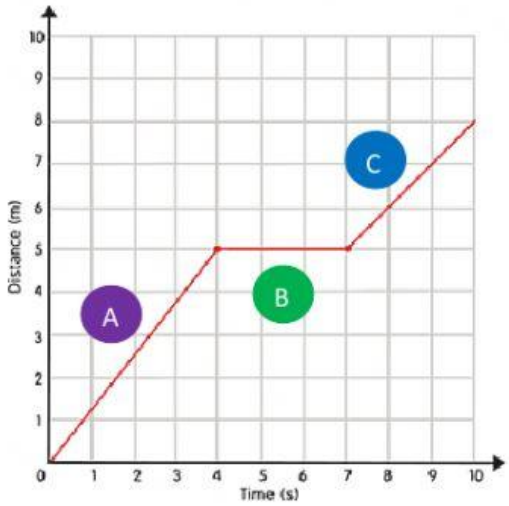
5. Which units do we usually use for speed?

- m/s
- m/s^2
- Faster speed
- Total distance ÷ total time
- Acceleration = change in speed per time

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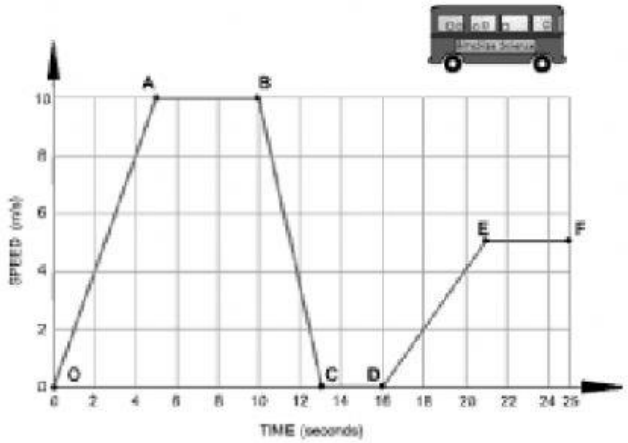
Select correct answer

1. The graph represents the motion of the bus. It is in three sections, A, B, and C.



   a. It is stationary ....
   b. It is a slow speed ....
   c. It is moving faster ....

2. Look at the speed-time graph



   Name the sections that represent
   a. Steady speed ....
   b. Speeding up (acceleration) ....
   c. Being stationary ....
   d. Slowing down (decelerating) ....

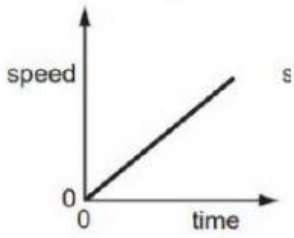
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Choose the one you consider correct

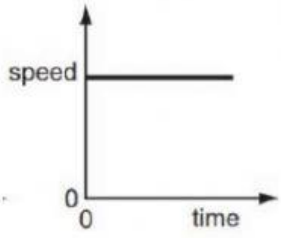
1. A tunnel has alength of 50 km. A car takes 20 min to travel between the two ends of the tunnel. What is the average speed of car?
   A. 2,5 km/h
   B. 16,6 km/h
   C. 150 km/h
   D. 1000 km/h

2. Which speed-time graph applies to an object at rest?

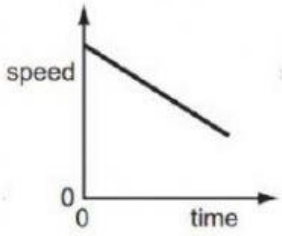
A



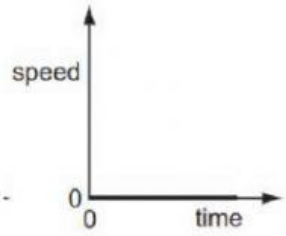
C



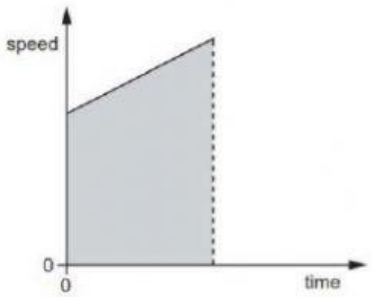
B



D



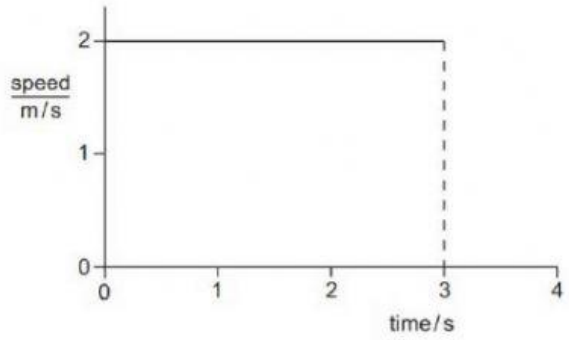
3. The diagram shows a speed-time graph for a body moving with constant acceleration



What is respresented by the shaded area under the graph?
   A. Acceleration
   B. Distance
   C. Speed
   D. Time

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4. The diagram shows the speed-time graph for an object moving at constant speed



What is the distance travelled by rest object in the first 3s?

A. 1,5 m
B. 2,0 m
C. 3,0 m
D. 6,0 m

5. A cyclist is travelling at 4,0 m/s. She speeds up to 16 m/s in a time of 5,6 s. Her acceleration is ....

A. 1,4 m/s^2
B. 2,1 m/s^2
C. 2,8 m/s^2
D. 3,6 m/s^2

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