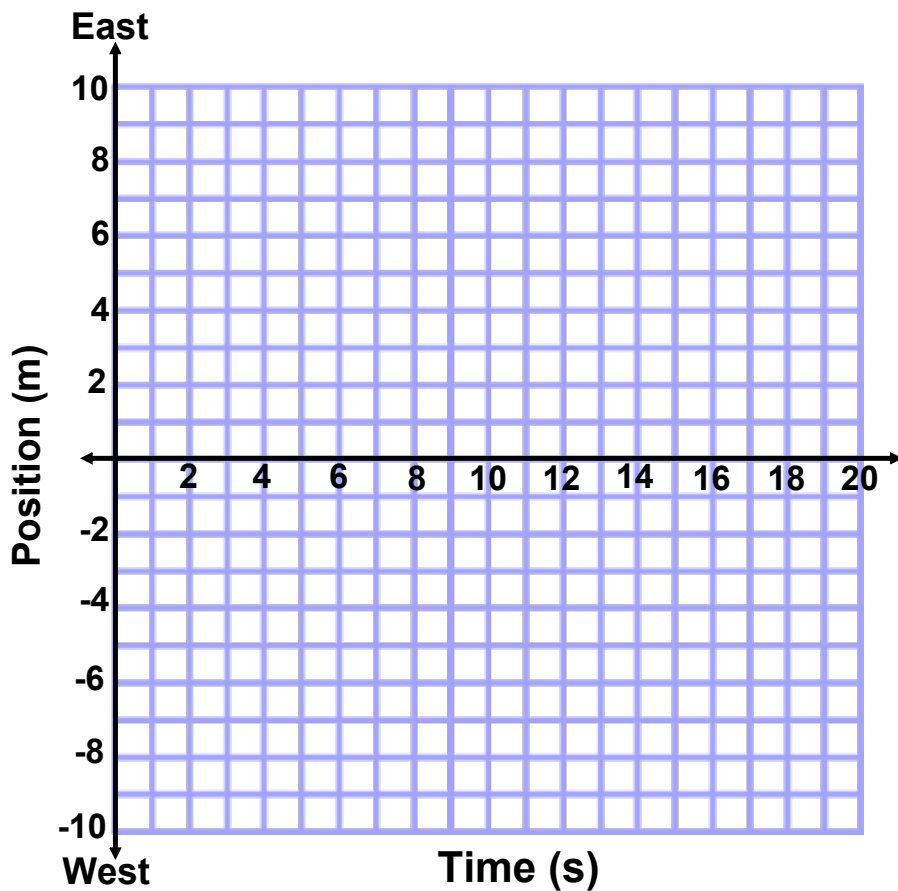


## Sketching Position-Time Graphs

Sketch the Position-Time graph, with the information given, then use it to answer the questions below the graph.

Starting at the origin, the object:

- has a velocity of 2 m/s for 0-3 seconds.
- does not move from 3 - 5 seconds.
- has a velocity of -3 m/s for 5 - 8 seconds.
- does not move from 8 - 12 seconds.
- has a velocity of -2 m/s from 12 to 14 seconds.
- has a velocity of 9 m/s from 14 - 15 seconds.
- has a velocity of 0.4 m/s from 15 - 20 seconds.



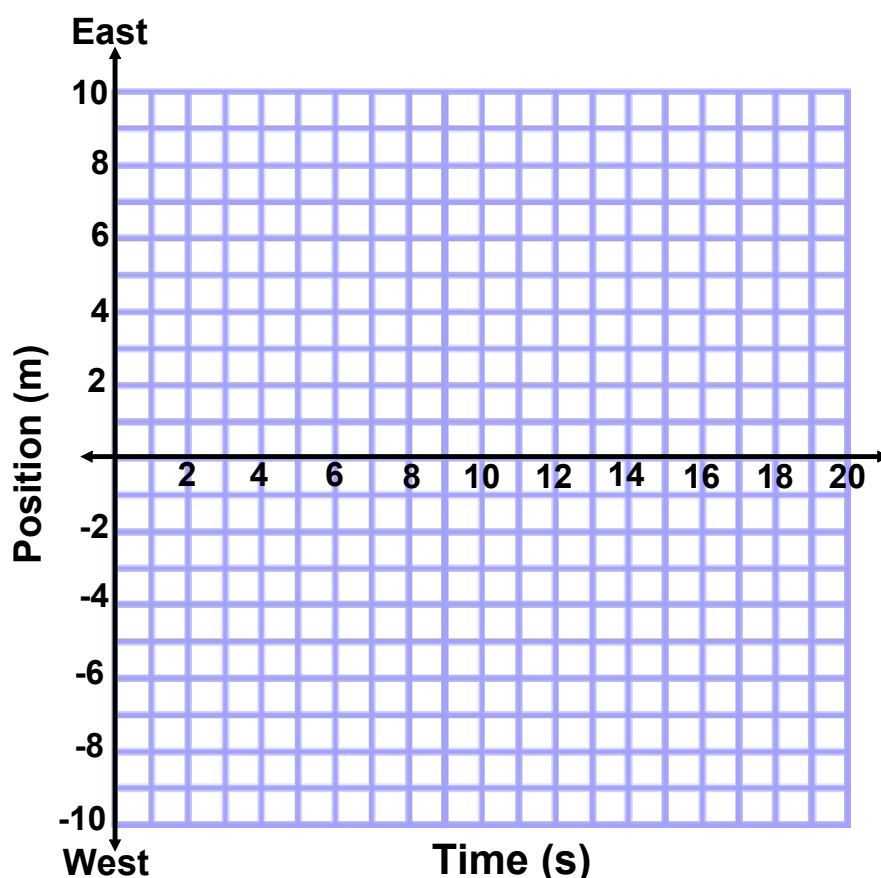
1. At what times did the object instantly return to the starting point?
2. Calculate the average velocity for the first 12 seconds.
3. Calculate the distance traveled at the 6 and 14 second marks.
4. During what time intervals was the object positioned east but traveling west?
5. During what time intervals was the object positioned west but traveling east?
6. Calculate the average speed and average velocity for the full 20 seconds.

## Sketching Position-Time Graphs

Sketch the Position-Time graph, with the information given, then use it to answer the questions below the graph.

Starting at the origin, the object:

- has a velocity of  $-1$  m/s for 4 seconds.
- has a velocity of  $-2$  m/s for 2 seconds.
- has a velocity of  $4$  m/s for 4 seconds.
- has a velocity of  $-3$  m/s for 6 seconds.
- has a velocity of  $5$  m/s for 4 seconds.



1. At what times did the object instantly return to the starting point?
2. At what times did the object change direction?
3. Calculate the average velocity for the first 12 seconds.
4. Calculate the distance traveled at the 7 and 17 second marks.
5. During what time intervals was the object positioned east but traveling west?
6. During what time intervals was the object positioned west but traveling east?
7. Calculate the average speed and average velocity for the full 20 seconds.

## Attachments

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moving-man\_all.jar