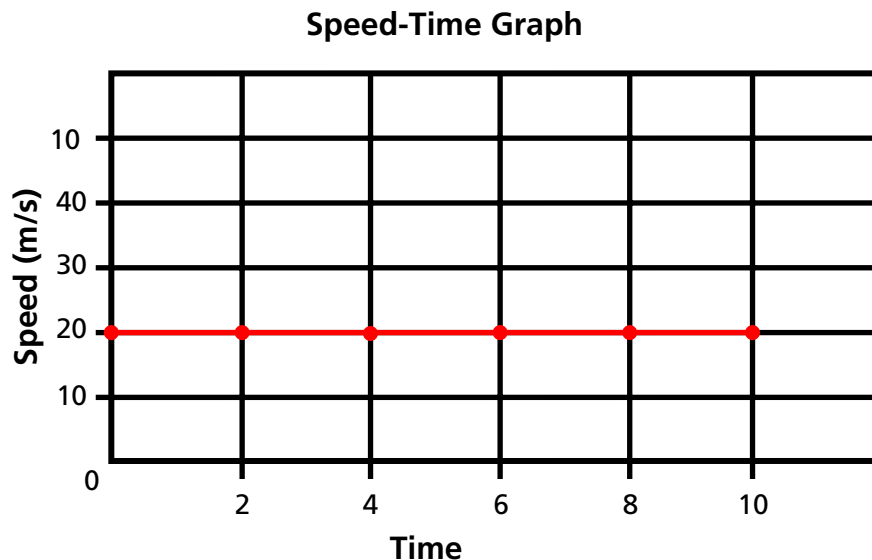


## Speed-Time Graphs

The speed an object travels in a period of time can be expressed on a graph. This type of graph can give useful information about the object's motion. The speed-time graph of the object in Transparency 157 is shown below.



1. Describe the speed of the object shown on the graph.
2. The slope of the line on a distance-time graph represents the change in distance (m) per the change in time(s). Thus, the slope of a distance-time graph gives speed (m/s). What information does the slope of a speed-time graph give you?
3. What is the slope of the line on the speed-time graph?

### ANSWERS

1. The object is traveling at a constant speed of 20 m/s.
2. The slope of a speed-time graph represents the acceleration of the object—its change in speed over the time.
3. The slope of the line is 0.