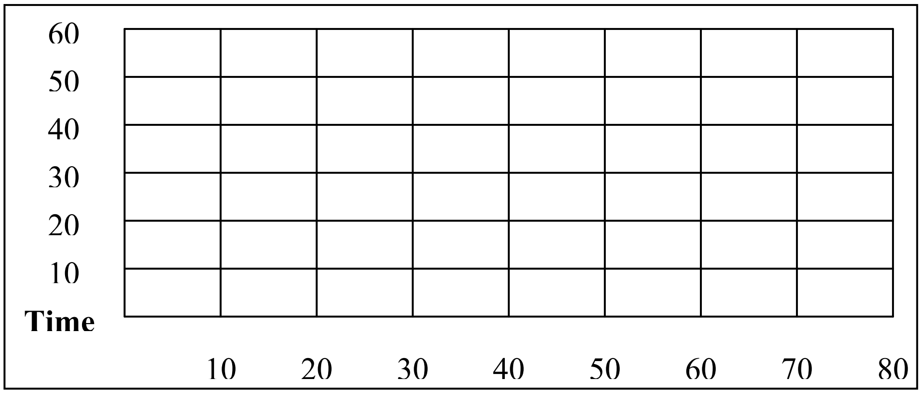
Gears Educational Systems, LLC

GEARS-EDS . . . technology education in a box

Speed and Velocity Work Sheet

Distance (ft) vs. Time (sec)

Time	Distance
0	0
10	15
20	30
30	20
40	15
50	30
60	50



Distance in Feet

The data presented above was collected from tests performed on a hypothetical GEARS-IDS™ Robot. Graph the data and calculate the average velocity for each interval described

Determine the average velocities for these time periods

Time Interval	Average Velocity
1.) 0 to 20 seconds	1.) ________________
2.)20 to 40 seconds	2.) ________________
3.)40 to 50 seconds	3.) ________________
4.)50 to 60 seconds	4.) ________________

Note: The speed of the object is equivalent to the slop of the line. The two equations below illustrate this fact. The Rise and Distance are on the y axis, and the Run and Time values are on the x axis.

$$\text{Slope} = \frac{\text{Rise}}{\text{Run}} \qquad \text{Speed} = \frac{\text{Distance}}{Time}$$