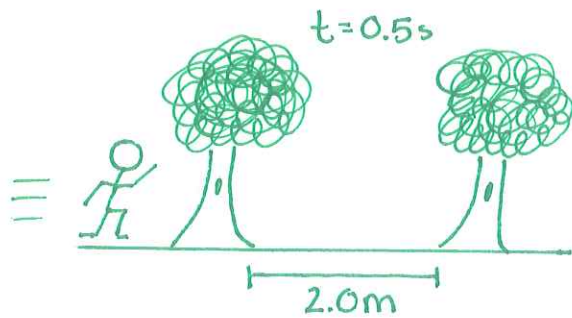


GRAPHING PRE-LAB: ANSWER KEY

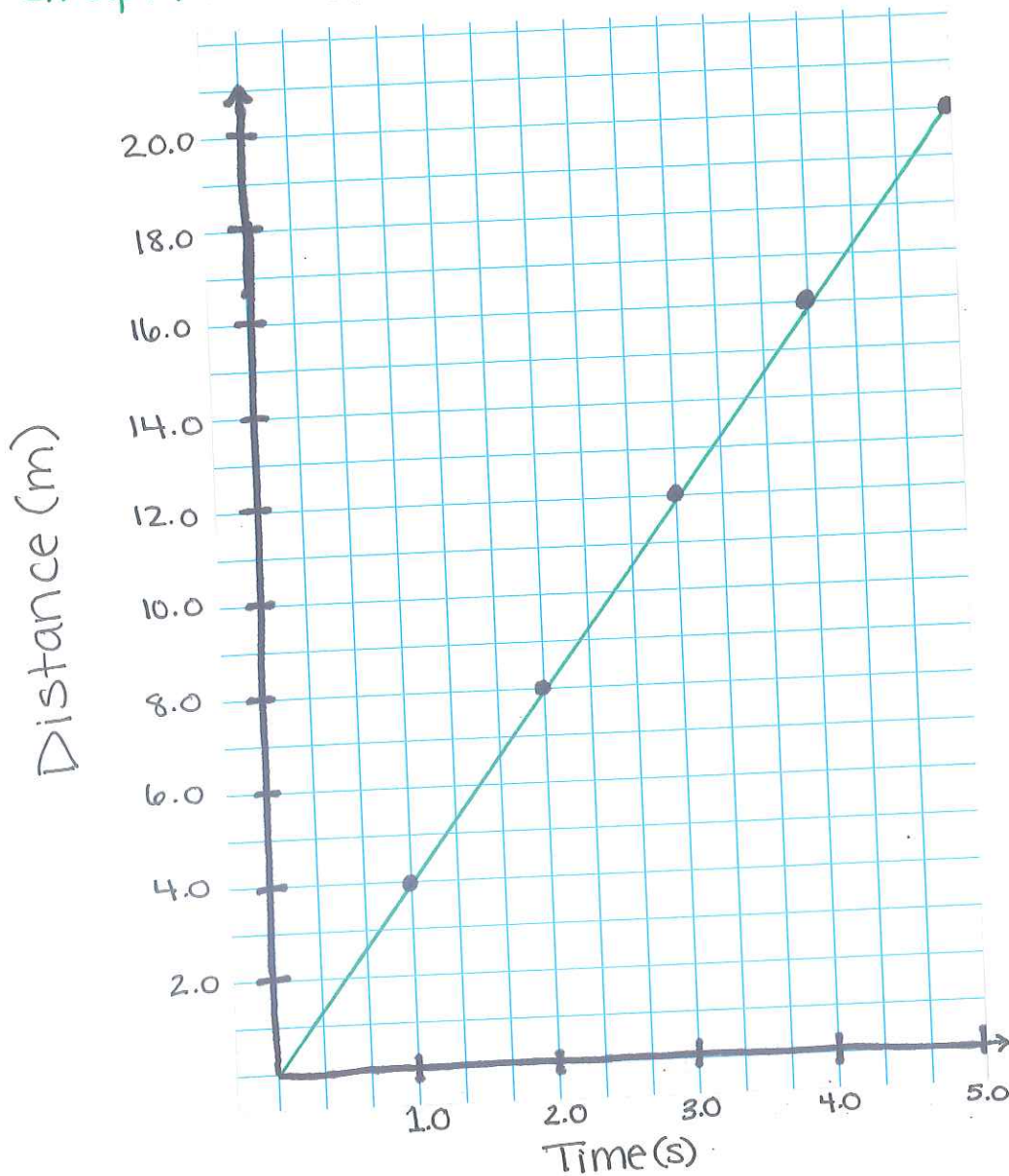


Time to run 2.0m is 0.5s

1. Table 1: Distance Covered while Running Given Time

Time (s)	Distance (m)
0.0	0.0
0.5	2.0
1.0	4.0
1.5	6.0
2.0	8.0
2.5	10.0
3.0	12.0
3.5	14.0
4.0	16.0
4.5	18.0
5.0	20.0

2. Graph 1: Distance Runner Travels with Time



#3. Slope = $\frac{\Delta d}{\Delta t} = \frac{(d_2 - d_1)}{(t_2 - t_1)} = \frac{(20.0 - 0.0) \text{ m}}{(5.0 - 0.0) \text{ s}} = \frac{20.0 \text{ m}}{5.0 \text{ s}} = \boxed{4.0 \text{ m/s}}$

#4. The slope for this graph is $\frac{\text{distance}}{\text{time}}$. Based on our equations (and units), our slope represents the runner's average speed.