Turtle	and	the	Hare
_	_		

Group Questions

Name: Date: Period:

Analysis Questions: The Turtle & the Hare

1. Fill in the missing information on the data tables below (you should use your graph as a reference):

Time (min)	Distance (m)
0	
	100
10	
15	300
20	400
25	500
30*	

Turtle

Hare

Time (min)	Distance (m)
5	220
12	
	340
20	460
25	

2. What was the **turtle's average speed** after 5 minutes? What was his average speed for the entire race? How do the two speeds **compare**?

Speed after 5 min =_____

Speed for the entire race = _____

Show all your work here (include any equations and units):

How do the speeds compare?

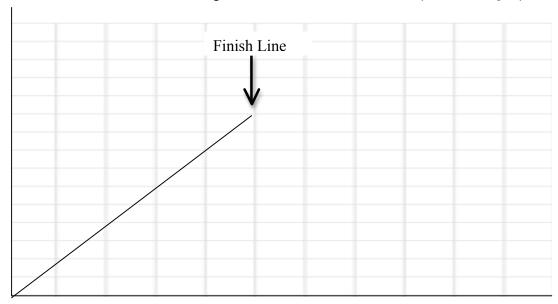
^{*}predict where the turtle would be if the finish line was extended so the race needed to continue for 30 min

3.	Which of	the	two	animals	traveled	at a	constant	speed?	Cite 1	two	pieces	of	evidence	to
sup	pport your	ansv	wer.											

Animal that traveled at a constant speed:_____

What does	the ter	m constant	mean?	

- 4. In what **Time Period** (or from what **time** to what **time**) was the hare moving at his greatest speed? How are you able to determine the hare's greatest speed from your graph? Find the speed of the hare during interval.
- 5. During what time interval(s) in the race was the hare stationary? How do you know? (Use the slope of the line on the graph to support your answer?
- 6. After the race, the turtle took his friends to Porto's for dinner. However, he had to return to the **starting line** to retrieve his wallet. In the space below, **sketch a graph** of what the turtle's return trip back to the starting line would look like given that the turtle still traveled at a **same constant speed**. Fill in as much information on the graph as you can, **including any appropriate axis labels and numbering** that are necessary to complete the graph.



^{*}Number 1 piece of evidence:

^{*}Number 2 piece of evidence: