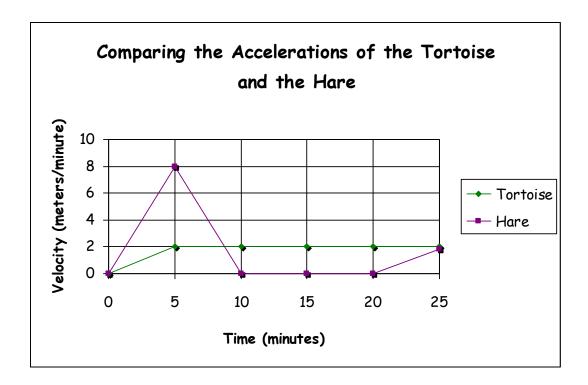
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Understanding Velocity-Time Graphs

<u>Directions</u>: Use your knowledge of velocity-time graphs to answer the questions that follow.

Part 1



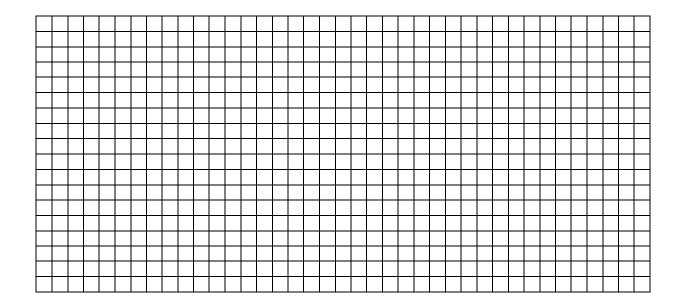
- 1. What can be determined from a velocity-time graph?
- 2. What does the Tortoise's line tell you about its acceleration?
  - a. From 0-5 minutes
  - b. From 5-25 minutes

3.	What does the Hare's line tell you about its acceleration?  a. From 0-5 minutes
	b. From 5-10 minutes
	c. From 10-20 minutes
	d. From 20-25 minutes
4.	Consider their acceleration and provide a brief summary of the events that took place while the Tortoise raced the Hare.

Part 2

The data below shows the acceleration of a cheetah as it chases down dinner. Use the data to create a velocity-time graph.

Time (seconds)	Velocity (m/s)
0	0
1	30
2	30
3	30
4	30
5	15
6	0

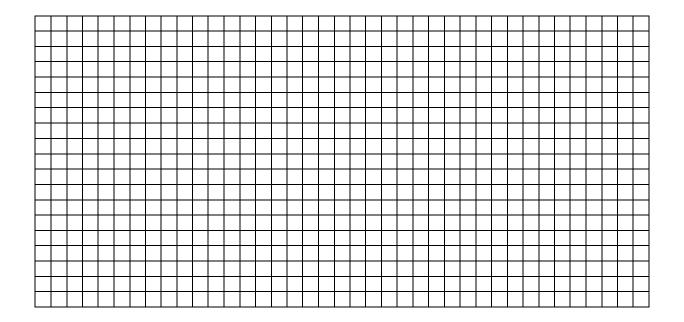


- 1. How would you describe the cheetah's acceleration during the 0-1 second interval?
- 2. How would you describe the cheetah's acceleration during the 1-4 second interval?

3. Describe what happens to the cheetah's acceleration during the 4-6 second interval. Why do you think is the reason for this?

Part 3

Generate a line graph (velocity-time) and provide a detailed summary of events below.



Summary