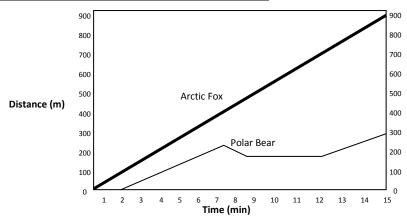
Review for The Motion Test

1.	A point or object that is used	to determine if something is moving is called a:	or
	a	. It is almost always assumed to be what: (Moving or Fixed)?	

- 2. What is the formula for speed (or velocity)? (Use the magic speed triangle for help)
- 3. What is the formula for time?
- 4. What is the **formula for distance**?
- 5. If you travel a distance of 10km in 5 hours what is your speed?
- 6. If you are going 2km/h and need to go 10km to get to the beach how long will it take you?
- 7. You travel at 100km/h for 6 hours. How far have you traveled?
- 8. What is the main difference between speed and velocity?
- 9. What is the <u>definition of acceleration</u> (3 words or less)? **Acceleration** is _____
- 10. Name three things or ways you can accelerate?
- 11. What is the **formula** for **acceleration**?
- 12. What are the <u>units</u> for <u>acceleration</u>? (put down both that are commonly used)
- 13. A police car goes from 20 m/s to 60 m/s in 8 seconds. What is the acceleration of the car?
- 14. What is the **formula for SLOPE**?
- 15. The **SLOPE** of a **DISTANCE vs. TIME Graph** is what?
- 16. The SLOPE of a SPEED (VELOCITY) vs. TIME GRAPH is what?

Use the graph below for questions 17-26.



- 17. What does the **slope** of either line tell you?
- 18. What is the Arctic Fox's speed?
- 19. Is the speed of the Arctic Fox constant or changing? How do you know?
- 20. Is the speed of the **Polar Bear constant** or **changing**? How do you know?
- 21. Does the **Polar Bear's** speed **change** at all? How do you know?
- 22. Between **10 and 12 minutes** is Polar Bear **moving**? How do you know?
- 23. Who traveled furthest in 10 minutes?
- 24. What is the **Fox's** average speed for the entire 15 minutes?
- 25. What is the Polar Bear's average speed for the entire 15 minutes?
- 26. Did the polar bear have a <u>greater average speed</u> from **2 min. to 7 min.** or from **9 min. to 15 min.**? <u>Calculate</u> (<u>show your work & units</u>) the <u>average speed</u> for each part of the polar bear's trip.