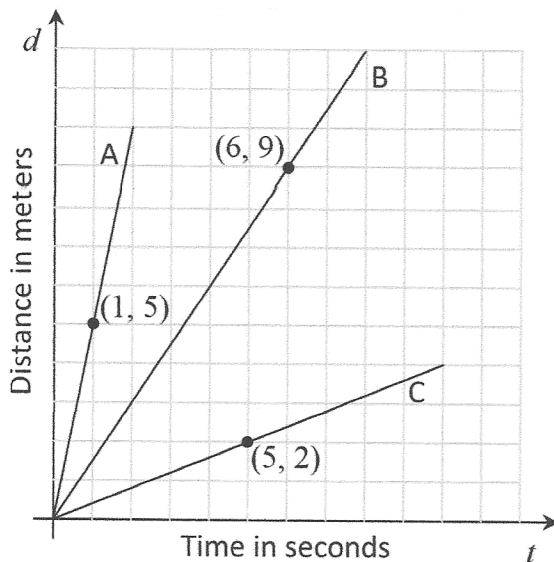


Name _____ Date _____

Lesson 8: Apply

Carli's class built some solar-powered robots. They raced the robots in the parking lot of the school. The graphs below show the distance d , in meters, that each of three robots traveled after t seconds.

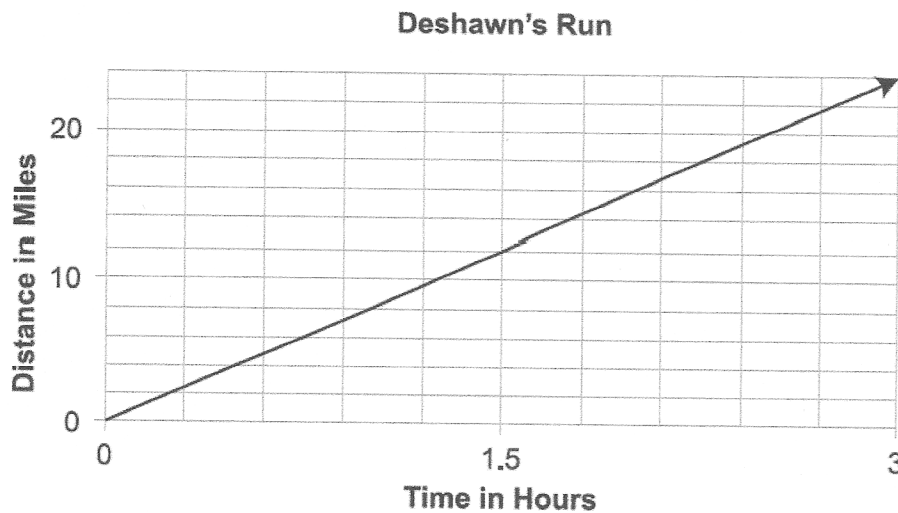


1. Each graph has a point labeled. What does the point tell you about how far that robot has traveled?
2. Carli said that the ratio between the number of seconds each robot travels and the number of meters it has traveled is constant. Is she correct? Explain.
3. How fast is each robot traveling? How can you see this in the graph?
4. Write a formula for each robot using d and t to name the variables.
5. The graph of a robot traveling at a constant rate of 1 meter per second would lie between which two of the lines below? Explain why.

Name _____ Date _____

Lesson 8: Homework

The graph below shows data from Deshawn's trial run of 3 hours.



- A. Explain to Deshawn how he can use the information in the graph to determine the rate at which he travels. Include a unit rate in your response.
- B. Kevin claims that the graph shows a proportional relationship, and that the constant of proportionality is $\frac{6}{5}$, since he can count 6 spaces up and 5 spaces over from (0,0) to reach another point on the graph. Some of what Kevin said is correct, and some is incorrect. Explain to Kevin in what ways he is right, and in what ways he is wrong about the graph.