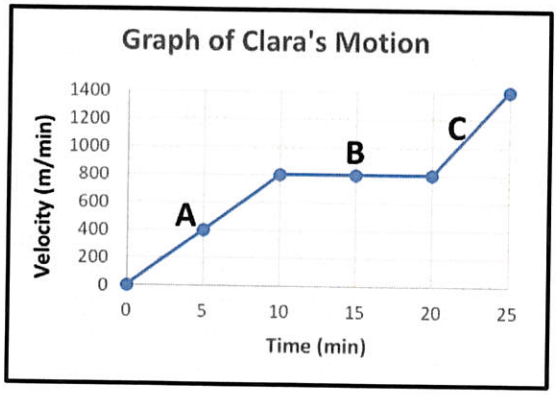
Practice: Acceleration Graphs

Part 1: *Match the letters on the graph to the statements in #1-3 that best describe Clara's motion. Then answer questions 4 and 5.*



_____ 1. Clara has a positive acceleration for 5 minutes.

_____ 2. Clara has zero acceleration.

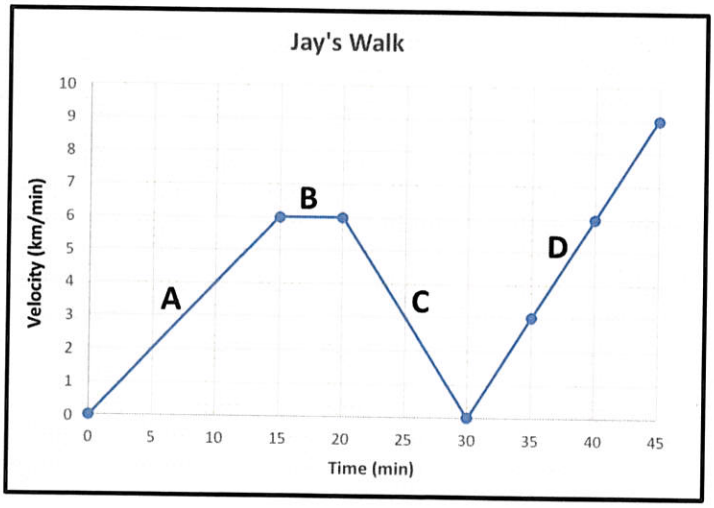
_____ 3. Clara is speeding up for 10 minutes.

4. Calculate Clara's acceleration for part A of her run.

5. Calculate Clara's acceleration for part C of her run.

Part 2: *Use the graph below to answer questions #6-10 about Jay's motion on his walk.*

6. Describe the motion of Jay's walk during part A vs. part C.



7. What is happening at part B?

8. What happens to Jay's motion at 30 minutes into his walk?

9. At what speed is Jay traveling at 5 minutes into his walk? At what time in his walk does he have the greatest speed?

10. Make up a short story to explain how Jay's speed and acceleration changes throughout his walk. Make sure to address parts A-D.

© It's Not Rocket Science 2017