

Name: _____

Date: _____

1. Match each term to its definition by writing the letter in the space provided.

- | | |
|---|-------------------------------|
| _____ How fast an object is moving at a single moment in time | A. Non-uniform Motion |
| _____ Speed or velocity is changing | B. Displacement |
| _____ Constant speed or velocity; not speeding up or slowing down | C. Average Speed |
| _____ A measure of how fast an object is going & its direction | D. Distance |
| _____ The difference measured between start and end positions | E. Uniform Motion |
| _____ Total change in distance divided by total change in time | F. Velocity |
| _____ The total measure of how far an object has moved | G. Instantaneous Speed |

2. How long does it take Mrs Logan to canoe 1050 m, from her parents' house across the Kennebecasis River to Darling's Island, if she averages a speed of 0.84 km/h?

3. Friends throw a football back and forth. Jonny gives the ball an initial velocity of 7.5m/s [forward], but when Sammy catches it 2.6s later, the ball is only moving 5.2m/s [forward]. What is the acceleration of the ball, including direction?

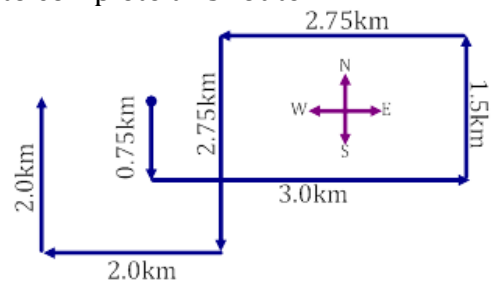
4. A runner follows the route shown on the right. It takes her 1.75h to complete this route.

a. What total distance does she travel?

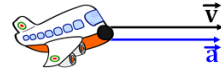
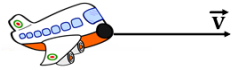
b. What is her displacement?

c. What is her average speed?

d. What is her average velocity?

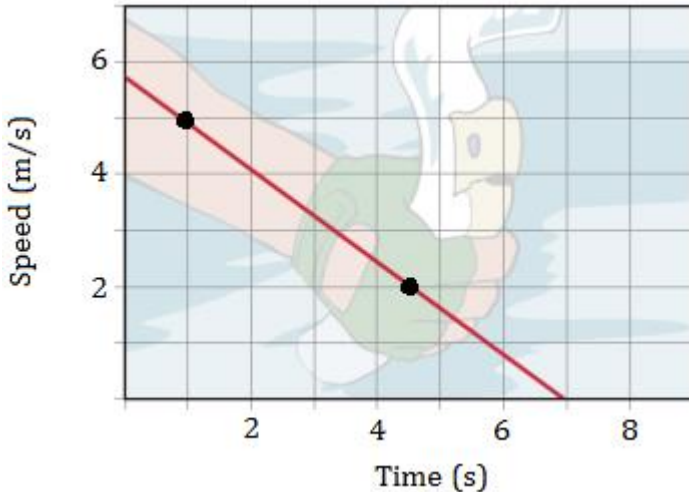


5. Match each vector diagram to the correct description of its motion. Write the letter beside the plane.



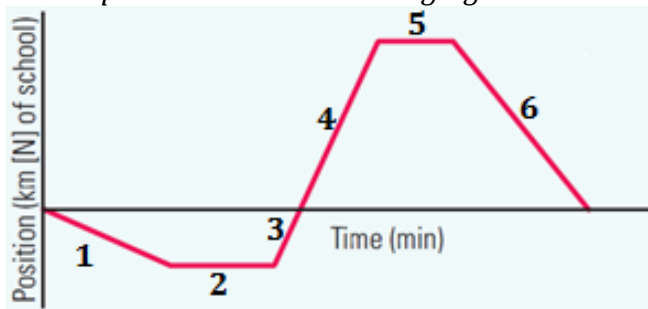
- | | |
|-----------------------------------|-----------------------------------|
| A. Moving West, constant velocity | D. Moving East, constant velocity |
| B. Moving West, speeding up | E. Moving East, speeding up |
| C. Moving West, slowing down | F. Moving East, slowing down |

6. Find the slope of the line shown in the graph below using the 2 points chosen for you.



7. What quantity does the slope in #6 represent? Circle the correct answer.
 a. Distance b. Velocity c. Speed d. Acceleration e. Displacement

8. Describe the motion of each line segment shown in the graph below. Include direction of motion, a description of speed, and whether speed is constant or changing.



- 1 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____
- 6 _____