Cycle 9 - Motion Basics

Motion involved changing your _____ over _____
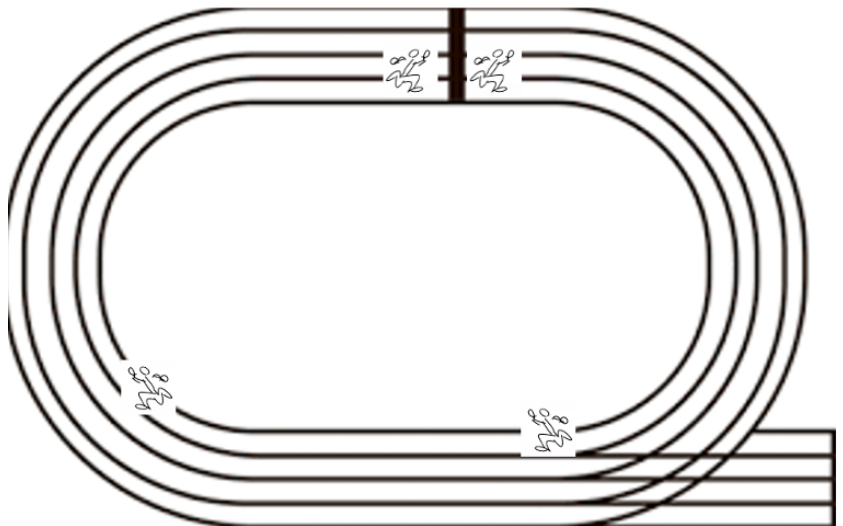
What is a scalar? Give an example

What is a vector? Give an example

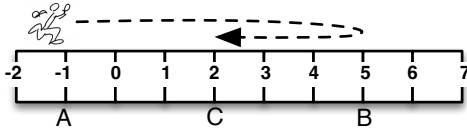Average Speed =

Average Velocity =

What is the average speed of a runner that completes a lap around a 400-meter track in 80 seconds?

What is the average velocity of a runner that completes a lap around a 400-meter track in 80 seconds?

Name: _____

The person runs from point A (**x = -1 m**) to point B (**x = 5 m**) in 4 seconds, then doubles back and ends up at point C (**x = 2 m**) in another 2 seconds.

a) Calculate the person's average speed from A to C.

b) Calculate the person's average velocity from A to C.

The person runs from point A (**x = 5 m**) to point B (**x = 2 m**) in 3 seconds, then doubles back and runs to point C (**x = 4 m**) in 2 seconds, then turns around and ends up at point D (**x = -1 m**) in another 3 seconds.
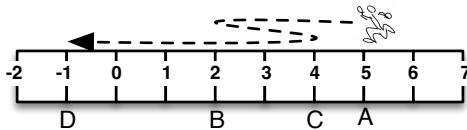
a) Calculate the person's average speed from A to D.

b) Calculate the person's average velocity from A to D.