Cycle 13 Motion Basics

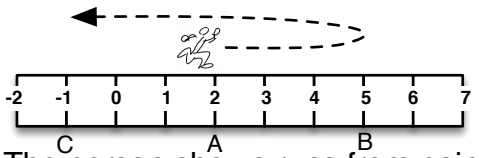
Quiz Review

Name: _____

Do you know the difference between velocity and velocity? When are they the same? When different?

Do you know the difference between average and instantaneous? When are they the same? When different?

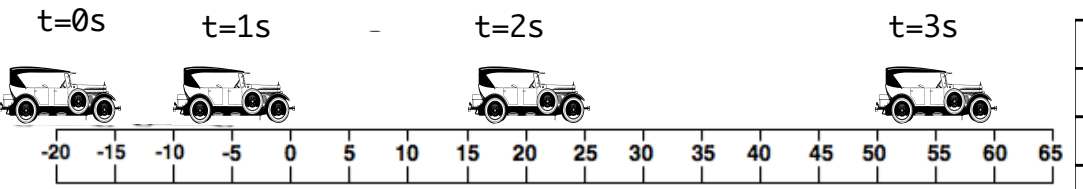
Do you know the difference between acceleration and velocity?



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

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

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



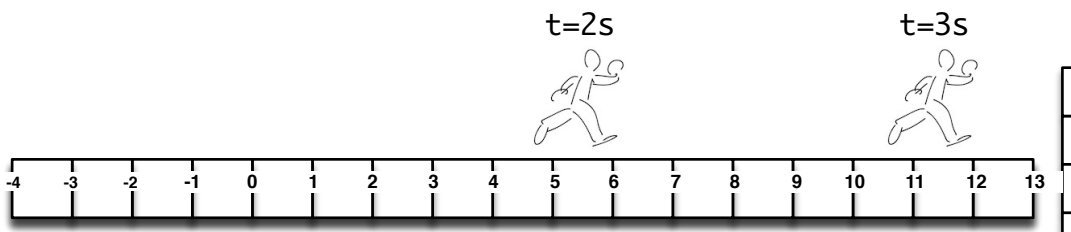
Appears to be:
☐ speeding up
☐ Slowing down
☐ Constant velocity

Acceleration = _____

Confirmed to be:
☐ speeding up
☐ Slowing down
☐ Constant velocity

t (s)	x (m)
0	
1	
2	
3	
4	

v (m/s)



His acceleration is 2 m/s/s.

t (s)	x (m)
0	
1	
2	
3	

v (m/s)