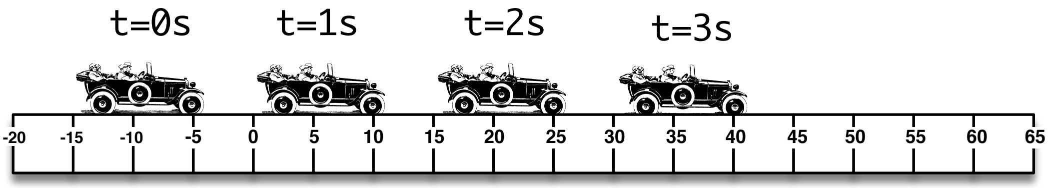
Cycle 13 Motion Basics

Tracking Position & Velocity   Name: ________________________

Track the FRONT of the object - fill in the data table, and determine the velocitys. Predict where the object will be at t = 4 s.



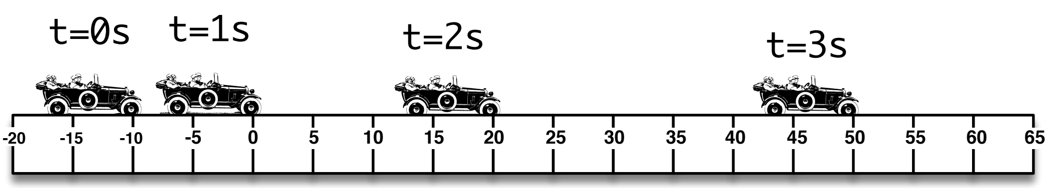
t (s)	x (m)
0	
1	
2	
3	
4	

v (m/s)

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

Acceleration = _______

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



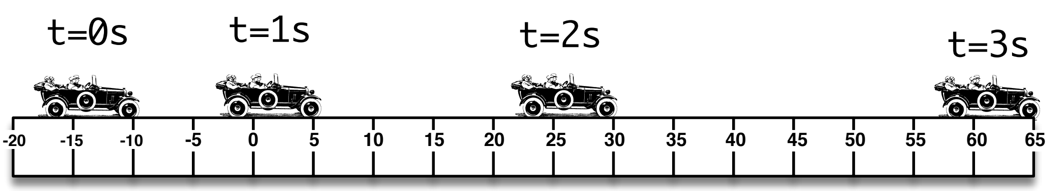
t (s)	x (m)
0	
1	
2	
3	
4	

v (m/s)

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

Acceleration = _______

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



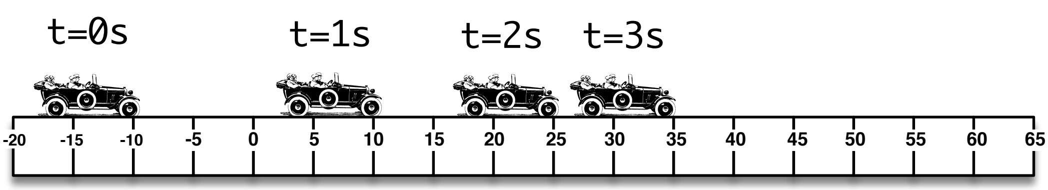
t (s)	x (m)
0	
1	
2	
3	
4	

v (m/s)

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

Acceleration = _______

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



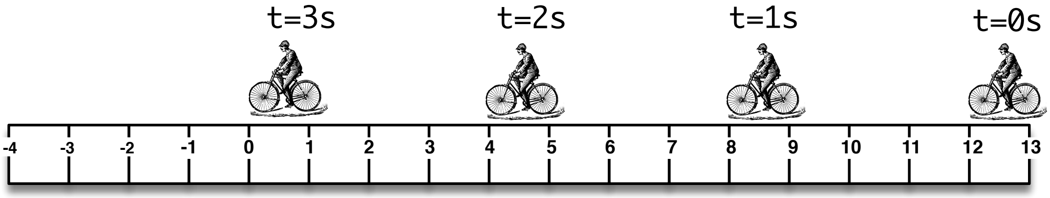
t (s)	x (m)
0	
1	
2	
3	
4	

v (m/s)

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

Acceleration = _______

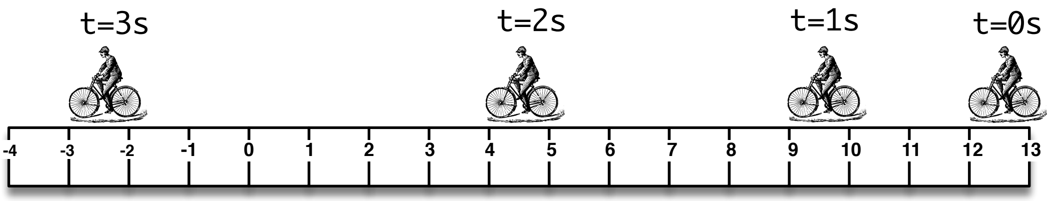
Confirmed to be:
☐ speeding up
☐ Slowing down
☐ Constant velocity



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

v (m/s)

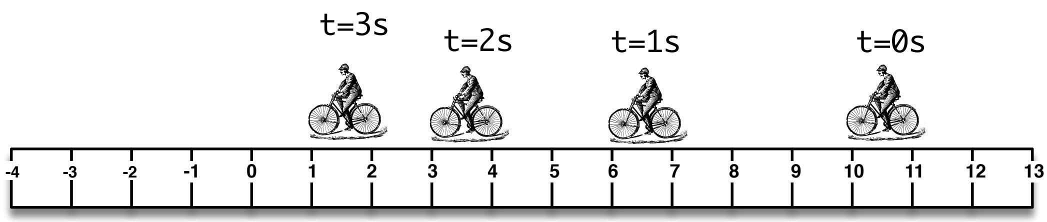
Describe the motion. What was the acceleration?



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

v (m/s)

Describe the motion. What was the acceleration?



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

v (m/s)

Describe the motion. What was the acceleration?

What is it about the velocity that tells you whether the object is heading to the right or to the left?

Under what velocity/acceleration conditions will something velocity up? Slow down?