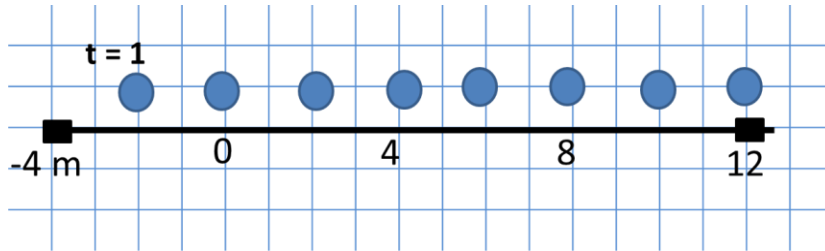


Worksheet 1.1

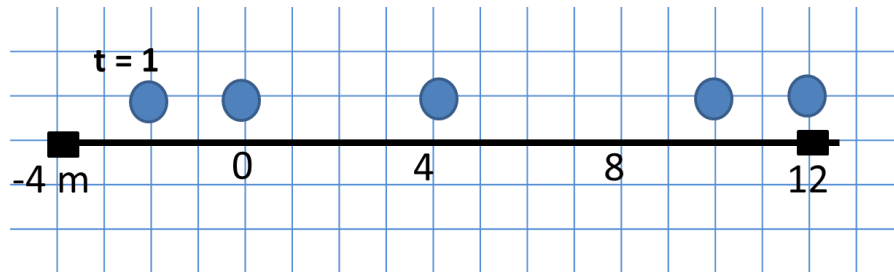
For all diagrams, each point is taken at 1 second intervals. The first point is measured at $t = 1$ s. The object begins its journey at the black block closest to the first time point.

1.



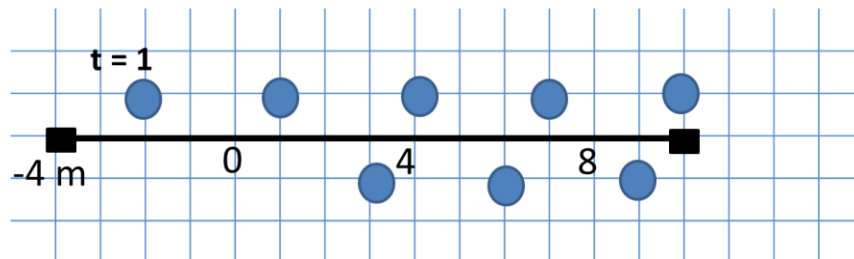
- What is the position of the object at $t = 3$ s?
- What is the distance that the object traveled for the entire trip?
- How much time did the trip take?
- What is the object's average velocity?
- How much time does it take for the object to travel a distance of 2 m?
- At what clock reading will the object have a displacement of 10 m?

2.



- What is the position of the object at $t = 5$ s?
- What is the displacement of the object for the entire trip?
- What is the object's displacement from a clock reading of $t = 3$ s to $t = 5$ s?
- How long (time) was the object's trip?
- Describe the object's motion (i.e. does it speed up, slow down, move at a constant speed?)

3. In the diagram below, the object moves in one direction and then makes a U-turn and goes back in the opposite direction. Points below the number line indicate time points taken after the U-turn.



- What is the total distance traveled by the object?
- What is the object's total displacement?

c) What is the objects average velocity for the whole trip?