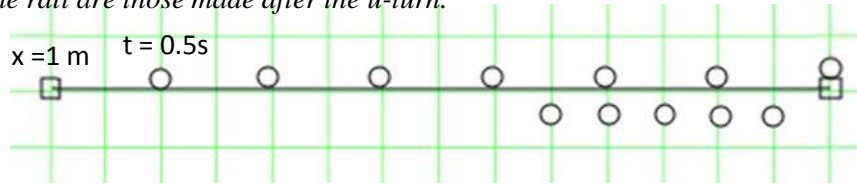


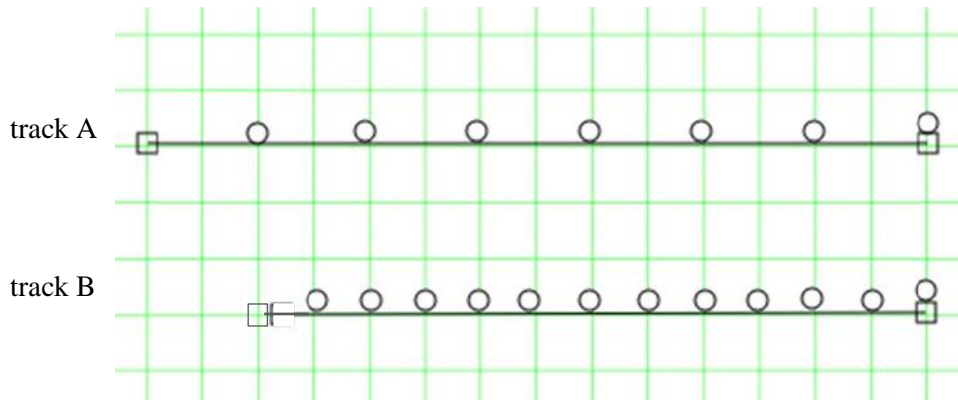
# Worksheet 1.1a

1. The following tracks are taken in 0.5 s intervals. Take the first track to have a clock reading of 0.5 s. At the end of the rail the object makes a u-turn. Each square represents 1 m. The tracks below the rail are those made after the u-turn.



- Describe the motion of the object.
- What is the distance traveled for the object?
- What is the object's displacement?
- What is the object's starting position?
- What is the object's position at a clock reading of 4 s? at 2 s?
- How long does it take the object to change its position from 3 m to 9 m?

2. The following are track of two objects that are side by side on different rails. The tracks are taken in 1-s intervals. Take the first track of each to have a clock reading of 1 s. Each square represents 1 meter.



- Describe the motion of object A and B.
- How far did B travel in 4 s?
- How long did it take A to travel 2 m?
- Which ball is ahead after 3 s?
- Which object reached the end of the track first?
- What is the position of each object after they have traveled for 4 s?
- Are they ever at the same position at the same time?