



- What initial velocity did each person start off with? (Jane: 1 m/s [E]; Jon 3.5 m/s [E])
- What was the final velocity of each person? (Jane 2.2 m/s [W]; Jon 1.8 m/s [E])
- How long after the start did Jane change direction? (13 seconds)
- At what time were both people at the same location? (14 seconds)
- What was the total distance traveled by each person? (Jane 20 m; Jon 19 m)
- What was the final displacement of each person? (Jane 3 m; Jon 19 m)
- What was Jon's instantaneous speed at the 5.33 s mark? (0.75 m/s)
- What was each person's average velocity for the entire trip? (Jane: 0.16 m/s [E]; Jon: 1.1 m/s [E])
- What was each person's average speed for the entire trip? (Jane: 1.1 m/s; Jon: 1.1 m/s)
- Sketch the graph of a third person who starts 2m [E] from the origin and runs 3 m/s [E] for three seconds stops for two seconds, runs 2 m/s [W] for three seconds, and finally sprints 6 m/s [E] for two seconds.