

Name _____ Period _____ Date _____

Review for Motion in One Dimension Test

Show all work, use units everywhere, and circle your answers!

1. (2pts) Rick Shaw is driving his car at 55 km/hr when a kid runs in front of him. It takes Rick .75 sec to start hitting the brakes. How far does he travel in meters (in that time of delay)?

2. (3 pts) Starting from rest, Darren Deeds moves drives his racecar 100 m in the first 5 sec. (with uniform acceleration). What is his acceleration? (Answer is **not** 4 m/s)

3. (2 pts) Joe Kerr is riding his snowmobile at 22 m/s. He comes to a full stop in 2 sec.
a) What is his acceleration?

b) (2pts) How far does he travel before stopping?

4. (3 pts) Ivana Mole digs a straight tunnel 20 ft. long at a rate of 1 ft/min. She then gets to softer soil and digs a tunnel 30 ft long at a new rate of 2.5 ft/min. What is the average speed of this rodent?

5. (3pts) An ostrich that is traveling at 8 m/s accelerates uniformly to 13 m/s over a 7 second interval. What is her displacement during this interval?