

Some Acceleration Practice Problems

- 1) While drag racing out of our school parking lot, I time myself at a speed of 40 meters per second seven seconds after starting. What was my acceleration during this time?
- 2) Using this information, how far have I gone during this seven seconds?
- 3) If I were to accelerate at this rate for another ninety seconds, how fast would I be going?
- 4) If I were to drop a ball out of my car while I was traveling at a velocity of 25 m/s, and it underwent a deceleration of 2.0 m/s/s while rolling to a stop, how long would it take for it to stop?
- 5) How far would it roll in this time?