

Date: _____

Solve each of the following problems. Remember to:

- a) Write the correct equation
 - b) Write what you know and fill it into the equation
 - c) Correctly solve the problem
 - d) Include correct units
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- 1) You want to pass the car next to you because it is going too slow and you are late for school. Your initial velocity is 30 mi/h. You speed up to 45 mi/h in 3 s. You pass the car without causing an accident. What is your acceleration?
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- 2) You are skiing down a hill and you want to figure out how far you have gone. You know you are accelerating at 20 m/s^2 for 10 s. What is the distance you have gone?



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- 3) If you are accelerating at a rate of 30 m/s^2 , how long does it take you to reach 70 m/s if you start from a stand still?

- 4) The free fall distance is 39 meters in the Drop Zone experience at Paramount's Great America in California. If you can't experience such a ride, at least find the number of seconds you'd experience in this free fall.

