Wk 17 Motion Equations

3 Solving Motion Equations

Name: _____

Now it's up to you to follow the process and get an answer. - Identify the variables that you are given. - Identify what you are being asked for.

- Choose the appropriate equation.Plug in and solve for the answer.

1. A car starting from rest, gets up to 20 m/s in 5 seconds. What was its acceleration?

2. What is the final velocity of a horse that starts at 4 m/s and accelerates at 1 m/s² for 3 seconds?

3. A sprinter, starting from rest, accelerates at 2 m/s² for 3 seconds. How far did he go?

4. How long would it take a rocket to go from 100 m/s to 200 m/s, if it accelerated at 5 m/s²?

5. A jogger covers 20 m in 5 seconds, with an acceleration of 2 m/s^2 . What was her initial velocity?

Make up two of your own problems - one that uses the first equation and one that uses the second.

Identify the variables and the one to be solved for. Then set up the equation, but do not solve.

6.

7.