Name: $\qquad$ HWUnit6:4 -
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Assigned: Fri., 1/12 and Tues., 1/16<br>Due: Wed., 1/17 and Thurs., 1/18

Period: $\qquad$

Remember: for ALL word problems you MUST follow all 4 steps: Assign Variables; Give the Formula; Put in Numbers and Solve: Give Answer with Units.

1. A car travels 60 mph for 3 hours. How far did the car go?
2. A 25 kg object is accelerating at $3 \mathrm{~m} / \mathrm{s}^{2}$. How big a force is acting on the object?
3. A car is going $20 \mathrm{~m} / \mathrm{s}$. How far does it travel each second?
4. If an object accelerates $5 \mathrm{~m} / \mathrm{s}^{2}$.
A. If it starts at rest, what is its velocity after 1 second?
B. What is its velocity after 2 seconds?
5. A car travels 10 m in 2 seconds. The car then accelerates for 5 seconds. After the acceleration it travels 90 m in 3 seconds. Find the acceleration of the car. (Use the example at the bottom of the Acceleration notes.)

6. What is the velocity of the above car? (show steps)
7. Where was the above car when the timer read 1 second? (Use the speed you found to figure this out).
