Name _____ Date _____ Period __

Practice – Speed/Velocity Problems

- Solve each of the following problems using the formulas for speed. Remember: velocity is the same as speed but with direction.
- Show your work. Even if you are using a calculator, show how you set up the problem.
- Round answers to the nearest tenth and include units.
- You will only receive a grade if your work is thorough and legible.

1. A jogger runs the first 1000 m of a race in 250 sec. What is the jogger's speed in m/sec?

2. A car traveled 650 miles from St. Louis to Dallas in 10 hours. What was its average velocity? (Use your agenda to find direction on a national map. St. Louis is in Missouri and Dallas is in Texas.)

3. How fast was a plane flying if it traveled 600 km in 45 min? Express your answer in km per hour.

4. How long will it take a car traveling 140 km/hr to travel 624 km? Express your answer in hours and minutes.

5. How far can a boat travel in 90 minutes at 43 m/min?

6. A runner runs one lap around a track (400 m) in 27 seconds. He runs the second lap in 29 seconds. He then runs the third lap in 30 seconds. His final lap takes 31 seconds. Find his average speed.

7. One of the fastest garden snails on record had a speed of 0.03 mph. At this rate, how long would it take this snail to travel one mile? Express your answer in days, hours, and minutes.

8. **Challenge:** The speed of light is about 300,000,000 m/sec. The speed of sound is slower, only about 344 m/sec. How much longer would it take the bang from a lightning bolt to reach you than the flash that was 32,000 meters away?