Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour:\_\_\_\_\_\_

**Speed/Distance/Time Story Problems
Must show work to get credit!**

**Formula:**

*HINT: Pick out what variables you have been given, then solve for the one you haven’t. Don’t forget to include units!!*

1. Two runners were racing down the track. Hannah was able to run 100 meters in 52 seconds and Linda was able to run 100 meters in 72 seconds. What was the speed of each runner AND who was running faster?
2. Daryl from The Walking Dead wants to escape a zombie. They both start at the fence and are running into the woods. If they both run for 25 seconds and Daryl runs at a speed of 10 m/s while the zombie runs at a speed of 5 m/s, what distance will they each run? How far away is Daryl from the Zombie when they stop running?
3. Vanesa throws a softball up in the air 12 meters, while in the air the ball travels at an average speed of 6.0 m/s. How long was the softball up in the air?
4. When it was storming last night Ms. Pilarz timed how long it would take to hear the thunder after she saw lightning. If sound travels at 350 m/s and it took 10 seconds to be heard, how far away was she from the lightning?
5. It takes Nick 15 minutes to walk to the store to get some Halloween candy (since he is too old to trick-or-treat), the store is 250 meters away. What was his speed? Also, if he walked this same speed how far could he walk in 45 minutes?
6. 2 Chainz was performing at a concert and he kept pacing back and forth across the stage while he was “singing”. The stage was 25 meters across and he paced back and forth completely 10 times during a 5 minute song. What was his speed?
7. If Blake Sheldon from The Voice was running away from a contestant who wanted another chance to be on the show and ran 200 meters north around the building then 300 meters east into the next building to hide, taking 150 seconds total, what was his speed?
8. Justin Bieber was running away from goats who kept interrupting his songs. He ran 100 meters in 40 seconds, how far could he have run had he kept this same speed up for 200 seconds?