

## **Speed Problems**

*Physical Science and Technology*

**Please answer these questions on your own sheet of paper!**

1. Optimus Prime is driving down 9<sup>th</sup> Street. He drives 12 blocks in 17 seconds. What is his speed in blocks per second?
2. Taylor Swift is running along a track that is 251 meters long. It takes her 12.6 seconds to run the entire length of the track. What is her speed in meters per second?
3. Captain Kirk fell out of a plane. He fell 1,982 meters in 3 seconds. Assuming he fell at a constant speed, what was his speed in meters per second?
4. Sid the sloth is walking to a friend's house. He walks 0.75 meters north, then realizes he walked too far. He turns around and walks 0.25 meters south. The entire walk takes him 13 seconds. What was his speed in meters per second?
5. Diego the Saber-toothed Tiger is running around in a circle. The circle is 2500 meters long. He is running at a constant speed. It takes him 452 seconds to complete the circle and get back to where he started. What is Diego's speed in meters per second?
6. Manfred the wooly mammoth is sprinting to Portland. For the first 70 miles, he sprints at 15 miles per hour. For the last 15 miles, he sprints at 20 miles per hour. What was his average speed?