

Name: _____

Date: _____

Speed and Velocity Worksheet Answers

1. What is the speed of a rocket that travels 9000 meters in 12.12 seconds? **742.57 m/s**
2. What is the speed of a jet plane that travels 528 meters in 4 seconds? **132 m/s**
3. How long will your trip take (in hours) if you travel 350 km at an average speed of 80 km/hr? **4.38 h**
4. How far (in meters) will you travel in 3 minutes running at a rate of 6 m/s? **1,080 m**
5. A trip to Cape Canaveral, Florida takes 10 hours. The distance is 816 km. Calculate the average speed. **81.6 km/h**
6. How many seconds will it take for a satellite to travel 450 km at a rate of 120 m/s? **3,750 s**
7. What is the speed of a walking person in m/s if the person travels 1000 m in 20 minutes? **0.80 m/s**
8. A ball rolls down a ramp for 15 seconds. If the initial velocity of the ball was 0.8 m/sec and the final velocity was 7 m/sec, what was the acceleration of the ball ? **0.413 m/s²**
9. A meteoroid changed velocity from 1.0 km/s to 1.8 km/s in 0.03 seconds. What is the acceleration of the meteoroid? **26.7 km/ s²**
10. A car going 50mph accelerates to pass a truck. Five seconds later the car is going 80mph. Calculate the acceleration of the car. **6 mph/s**