**Speed and Velocity Calculations**

Show all four steps in completing these problems!

**Round to the hundredths place!**

1. If Rob travels on a skateboard 12 meters in 3 seconds, how fast is he going?

Velocity = \_\_\_\_\_\_\_\_\_\_\_\_\_ Equation With Numbers Answer

Displacement = \_\_\_\_\_\_\_\_\_\_\_

Time = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. On vacation, you and your family go from Charleston to New Orleans. You leave at 7:00 am and arrive at 4:00 pm, and the trip’s distance is 850 miles. Calculate your average velocity.

Velocity = \_\_\_\_\_\_\_\_\_\_\_\_\_ Equation With Numbers Answer

Displacement = \_\_\_\_\_\_\_\_\_\_\_

Time = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A train going 60 km/hr travels 100 kilometers. How much time does it take the train to get to its destination?

Velocity = \_\_\_\_\_\_\_\_\_\_\_\_\_ Equation With Numbers Answer

Displacement = \_\_\_\_\_\_\_\_\_\_\_

Time = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. The world’s fastest passenger elevator operates at an average velocity of 10 m/s upward. If the 60th floor is 219 m above the first floor, how much time does it take the elevator to go from the 1st floor to the 60th floor?

Velocity = \_\_\_\_\_\_\_\_\_\_\_\_\_ Equation With Numbers Answer

Displacement = \_\_\_\_\_\_\_\_\_\_\_

Time = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. If you are traveling at the velocity of 55 miles per hour, how far will you travel if you travel for 8.5 hours?

Velocity = \_\_\_\_\_\_\_\_\_\_\_\_\_ Equation With Numbers Answer

Displacement = \_\_\_\_\_\_\_\_\_\_\_

Time = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Calculate how far a boat will travel in 2.5 hours at a velocity of 30 km/hr.

Velocity = \_\_\_\_\_\_\_\_\_\_\_\_\_ Equation With Numbers Answer

Displacement = \_\_\_\_\_\_\_\_\_\_\_

Time = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What would be the magnitude of velocity of a man who runs the 100 meter dash in 13.5 seconds?

Velocity = \_\_\_\_\_\_\_\_\_\_\_\_\_ Equation With Numbers Answer

Displacement = \_\_\_\_\_\_\_\_\_\_\_

Time = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. How much time would it take for the sound of thunder to travel 1,500 meters if sound travels at the speed of 330 m/s.

Velocity = \_\_\_\_\_\_\_\_\_\_\_\_\_ Equation With Numbers Answer

Displacement = \_\_\_\_\_\_\_\_\_\_\_

Time = \_\_\_\_\_\_\_\_\_\_\_\_\_\_