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Worksheet Speed Velocity Acceleration Answers

Speed, Velocity and Acceleration Calculations Worksheet

Part 1 - Speed Calculations: Use the speed formula to calculate the answers to the following questions. Be sure to show your work for each problem (write the formula, numbers with correct units, and the answer with the correct units).

- Calculate the speed for a car that went a distance of 225 miles in 2 hours time.

Solving for	Equation
Substitute (work)	Answer w/ units
- A baseball is thrown a distance of 60 feet. What is its speed if it takes 0.5 seconds to cover the distance?

Solving for	Equation
Substitute (work)	Answer w/ units
- How much time does it take for a bird flying at a speed of 45 miles per hour to travel a distance of 1,800 miles?

Solving for	Equation
Substitute (work)	Answer w/ units
- A comet is cruising through the Solar System at a speed of 50,000 kilometers per hour for 4 hours time. What is the total distance traveled by the comet during this time?

Part 2 - Speed and Velocity Calculations: For problems 5 - 10 use the speed and velocity formulas to solve the following problems. Show your work (formula, numbers with correct units and answer with correct units).

- Bob rides his bicycle on a bike path that is 75 kilometers long to get to his house that is due east of the bike path. If it takes Bob 15 hours then
 - What is his speed?

Solving for	Equation
Substitute (work)	Answer w/ units
 - What is his velocity?

Solving for	Equation
Substitute (work)	Answer w/ units