

Speed & Velocity

Name: _____
Class: _____

Solve the following problems relating to speed and velocity. Be sure to show ALL your work.

Formulas:

- Speed = distance / time
- Velocity = displacement / time plus a given direction

1. A racehorse that wins the 3200 meter Cup in a time of 200 seconds. What is the racehorse's average speed?
2. The speed of sound in air is roughly 1,484 m/s. How far, in meters, would a sound wave travel in 3 seconds?
3. A dolphin keeps up with a boat for a distance of 51 miles for 3 hours. What is the dolphin's average speed?
4. A car traveling 65 kilometers per hour travels 195 kilometers. How long did it take the care to travel that distance at that speed?
5. If a rocket travels 35,200 miles in 2 hours, what is its speed?

Speed & Velocity

Formulas:

- Speed = distance / time
- Velocity = displacement / time plus a given direction



6. What is the velocity of a rocket that goes 700 kilometers north in 25 seconds?
7. How much time does it take a person to walk 8 kilometers east at a velocity of 4 kilometers per hour?
8. A motorcycle travels 300 miles south in 3 hours. What is the average velocity?
9. If the velocity of a car is 45 kilometers per hour west, how far can it travel in 0.5 hours?
10. An airplane travels 4,425 kilometers west in 5 hours. What is its average velocity?