

ADDITIONAL WORD PROBLEMS

1. If the perimeter of a rectangle is 276 meters and the length is 3 meters longer than twice the width, then what are the length and width?
2. Dorothy bought two computers, one desktop and one laptop. Before finance charges, the laptop cost \$1500 less than the desktop. Dorothy paid for the computers using two different financing plans. For the desktop the interest rate was 5% per year, and for the laptop it was 10% per year. The total finance charges for one year were \$637.50 . How much did the desktop computer cost before finance charges?
3. A wading pool can be filled in 6 minutes when the drain is closed. It takes 8 minutes to empty the full pool when the drain is open. If the drain is accidentally left open while the pool is being filled, how long will it take to fill the pool?
4. On a bicycle trip, Susan rode her bike for 5 hours and walked for 3 hours. She covered a total of 85 miles. If she rode 9 mph faster than she walked, then what was her rate walking?
5. It takes a person the same time to drive 150 miles as it takes a plane to fly 1350 miles. If the plane is flying 400 mi/h faster than the car, how fast is each traveling?
6. It took a woman the same time to drive 150 miles as it takes a train to travel 250 miles. If the train is traveling 20 mi/h faster than the woman is driving, find the rate at which each is traveling.
7. Wilma can mow the lawn in 3 hours. If Kyle helps her with another mower, the lawn can be mowed in 2 hours. How long would it take Kyle if he worked alone?
8. Ralph can paint a room in 2 hours, and Joy can paint the same room in 3 hours. If they work together, how long would it take them to paint the room?
9. How many milliliters of pure acid must be added to 50 milliliters of a 40% acid solution to obtain a 50% acid solution?