

Honors Algebra II

Worksheet: Word Problems: Linear Equations

Assign variables, write an equation, and solve.

- 1) The sum of two consecutive even integers is 218. What are the integers?
- 2) The length of the second side of a triangle is 3 cm shorter than the first side, and the third side is twice as long as the first side. If the perimeter is 49, how long are the 3 sides?
- 3) The length of a rectangular field is 7 m less than 4 times the width. The perimeter is 136 m. Find the width and the length of the rectangle.
- 4) Bill's weight is 48 kilograms. This is 10 kilograms more than one half of his father's weight. What is his father's weight?
- 5) Find three consecutive odd integers whose sum is 13 more than twice the largest of the three integers.
- 6) Sherry is 31 years younger than her mom. The sum of their ages is 61. How old is Sherry?
- 7) John worked five less than twice as many hours as Jane did. How many hours did each work if together they worked 97 hours?
- 8) The perimeter of a regular octagon is 128 inches. Find the length of each side.
- 9) Luis and three friends went golfing. Two of the friends rented clubs for \$6 each. (Luis and the other friend had their own clubs.) The total cost of the rented clubs and green fees for each person was \$76. What was the cost of the green fee for each person?

