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**Solving Word Problems with Equations**

**Consecutive and Non-Consecutive Integers**

1. Find two consecutive even integers such that the sum of the larger and twice the smaller is 62.
2. Find three consecutive even integers such that the sum of the smallest and the largest is 36.
3. Find three consecutive odd integers such that the sum of the smallest and 4 times the largest is 61.
4. Find three consecutive integers such that the sum of twice the smallest and 3 times the largest is 126.
5. Find four consecutive odd integers who sum is 56.
6. The larger of two numbers is 1 less than 3 times the smaller. Their sum is 63. Find the numbers.
7. The sum of two numbers is 172. The first is 8 less than 5 times the second. Find the first number.
8. Find two numbers whose sum is 92, if the first is 4 more than 7 times the second.
9. The sum of three numbers is 61. The second number is 5 times the first, while the third is 2 less than the fist. Find the numbers.
10. The sum of three numbers is 84. The second number is twice the first, and the third is 4 more than the second. Find the numbers.
11. The sum of two numbers is 35. Three times the larger number is the same as 4 times the smaller number. Find the numbers. *(HINT: Let x = larger number 35 – x = smaller number)*

**Perimeter**

1. An 84-meter length cable is cut so that one piece is 18 meters longer than the other. Find the length of each piece.
2. The length of a rectangle is 2 cm less than 7 times the width. The perimeter is 60 cm. Find the width and length.
3. The first side of a triangle is 7 cm shorter than twice the second side. The third side is 4 cm longer than the first side. The perimeter is 80 cm. Find the length of each side.
4. The length of a rectangle is 6 cm longer than the width. If the length is increased by 9 cm and the width by 5 cm, the perimeter will be 160cm. Find the dimensions of the original rectangle.
5. The first side of a triangle is 8 m shorter than the second side. The third side is 4 times as long as the first side. The perimeter is 26 m. Find the length of each side.
6. A triangular sail has a perimeter of 25 m. Side a is 2 m shorter than twice side b, and side c is 3 m longer than side b. Find the length of each side.
7. The length of a rectangular field is 18 m longer than the width. The field is enclosed with fencing and divided into two parts with a fence parallel to the shorter sides. If 216 m of fencing are required, what are the dimensions of the outside rectangle?

**Age and Points**

1. Matthew is 3 times as old as Jenny. In 7 years, he will be twice as old as she will be then. How old is each now?
2. Melissa is 24 years younger than Joyce. In 2 years, Joyce will be 3 times as old as Melissa will be then. How old are they now?
3. In the Championship game, Julius scored 5 points less than Kareem, and Wilt scored 1 point more than twice as many as Kareem. If Wilt scored 20 points more than Julius, how many points were scored by each player?