**Equation Word Problems**

1. Find two consecutive integers such that the sum of the larger and twice the smaller is -29.

**Define the Variable: \_\_\_\_\_\_\_\_\_\_\_\_\_**

**Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_**

1. The larger of two numbers is 1 less than 3 times the smaller. Their sum is 63. Find the numbers.

**Define the Variable: \_\_\_\_\_\_\_\_\_\_\_\_\_**

**Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_**

3) Find two numbers whose sum is 92, if the first is 4 more than 7 times the second.

**Define the Variable: \_\_\_\_\_\_\_\_\_\_\_\_\_**

**Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_**

4) Find two consecutive even integers such that the sum of the larger and twice the smaller is 62.

**Define the Variable: \_\_\_\_\_\_\_\_\_\_\_\_\_**

**Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_**

5) The length of a rectangle is 2 cm less than 7 times the width. The perimeter is 60 cm. Find the width and length.

**Define the Variable: \_\_\_\_\_\_\_\_\_\_\_\_\_**

**Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_**

6) 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.

**Define the Variable: \_\_\_\_\_\_\_\_\_\_\_\_\_**

**Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_**

7) 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.

**Define the Variable: \_\_\_\_\_\_\_\_\_\_\_\_\_**

**Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_**

8) 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?

**Define the Variable: \_\_\_\_\_\_\_\_\_\_\_\_\_**

**Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_**