Word Problem Review

1. Write what you were given
2. Make X equal what you are looking for
3. If you are looking for more than one number,
Express them in terms of one another
4. Write in words a relation that exists
5. Translate the words into an algebraic equation

1. Four times the difference between a number and 6 is equal to –21 increased by 5.

2. If twice the sum of a number and five is increased by the number, the result is equal to the sum of the number and sixteen.

3. The sum of three consecutive even integers is 132. Find the integers.

4. Find three consecutive even integers such that twice the smallest is eight less than the largest.

5. Find two consecutive integers such that four times the larger is nine less than five times the smaller.

6. A Burger King Whopper has 258 more calories than a medium order of French fries. A meal consisting of a Whopper and French fries has a total of 1002 calories. How many calories are in each?

7. It costs $12 a day extra for after-school care at a nursery school. If the total cost for a five-day week of school including after-school care is $210, what is the charge per day for the nursery school without after-school care?

8. Two supplementary angles are such that one is eight times larger than the other. Find the two angles.

9. Two complementary angles are such that one is five times larger than the other. Find the two angles.

10. The smallest angle in a triangle is half of the largest angle. The third angle is 15 degrees less than the largest angle. Find the measure of all three angles.

11. The third angle in an isosceles triangle is eight degrees more than twice as large as each of the two base angles. Find the measure of each angle.

12. The length of a rectangle is 2 feet more than three times the width. If the area is 16 square feet, find the width and the length.

13. A rectangle is twice as long as it is wide. The perimeter is 60 feet. Find the dimensions.

14. A square has a perimeter of 36 centimeters. Find the length of each side.

15. The longest side of a triangle is two times the shortest side, while the medium side is 3 meters more than the shortest side. The perimeter is 27 meters. Find the dimensions.

16. The length of a rectangle is 1 foot more than twice the width. The perimeter is 20 feet. Find the dimensions.

Word Problem Review Answer Sheet

1) 2

2) 3

3) 42, 44, 46

4) -4, -2, 0

5) 13, 14

6) 372 calories, 630 calories

7) $30

8) 20, 160

9) 15, 75

10) 39, 63, 78

11) 94, 43, 43

12) w = 2, l = 8 ft

13) 20 x 10 ft

14) 9 cm

15) 6, 12, 9 m

16) 7 x 3