**4.3: Dimensions Word Problems**

For the problems below, write the appropriate let statements and include a diagram. Write the equation and

solve it. Write a meaningful conclusion.

1. The side of a square is. If the perimeter is 96, what is ?
2. A rectangle is four times as long as it is wide. Its perimeter is .

Find the length and the width of the rectangle.

1. The length of a rectangle is 5m more than the width. If the perimeter is 70m, what is the width?

Dimensions Problems Handout (Extra Practice):

1. The width of a rectangular swimming pool is 8m less that the length. Find the dimensions of the pool if

the perimeter is 104m. (22m,30m)

1. The length of a rectangle is 3 more that twice the width. If the perimeter is 42m,what is the width? (6m)
2. The length of a rectangular playground is 4 metres less than 3 times the width. The perimeter is 64 metres.

What are the dimensions of the playground?

(9m, 23m)

**Peer Assessment**

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| 1. The **sum of** two numbers **is**29. **Twice** the first number **plustriple** the second number **is**77. What are the **numbers**? |
| 1. The **length** of a rectangle is 3cm**more** than **twice**the **width**. If the **perimeter** of the rectangle **is**36cm,find the l**ength** and the **width**. |
| 1. The sum of three consecutive even integers is 366. Find the three numbers. |

**Checklist: (write 1/2/3 in the blanks below)**

* Let statement are there for \_\_\_\_\_\_ problems.
* Equation to be solved are there for \_\_\_\_\_ problems.
* Therefore statements are there for \_\_\_\_\_\_ problems.
* According to the solutions provided on the board, \_\_\_\_\_ answers are correct.