

Name: _____

UNIT 10

Date: _____

LESSON 7

DO NOW:

Solve the system of equations **algebraically**

$$2x + y = 7$$

$$y = x + 4$$

AIM: AREA & PERIMETER PROBLEMS USING SYSTEMS OF EQUATIONS

1. The perimeter of a rectangle is 22 feet, and the area is 24 square feet. Find the dimensions of the rectangle.

2. A contractor has 48 meters of fencing that he is going to use as the perimeter of a rectangular garden. The length of one side of the garden is represented by x , and the area of the garden is 108 square meters. Determine, algebraically, the dimensions of the garden in meters.