

## Homework Practice

4AF1.5

## Algebra: Find a Rule

Write an equation that describes the pattern. Then use the equation to find the next three numbers.

1.

Rule: _____	
Input ( $v$ )	Output ( $w$ )
8	4
12	6
16	
20	
24	

2.

Rule: _____	
Input ( $x$ )	Output ( $y$ )
5	15
6	18
7	
8	
9	

3. Shannon found out there are four yellow pencils for every one blue pencil. Make a table to find how many yellow pencils there would be if she found 4, 6, 8, 10, and 12 blue pencils.

Rule: _____	
Blue Pencils Input ( $x$ )	Yellow Pencils Output ( $y$ )

**Spiral Review** Use any strategy to solve. Tell what strategy you used. (Lesson 6-5)

4. In Alexa's neighborhood, there are 3 times as many dogs as birds. There are 5 more cats than birds. There are 24 cats. How many dogs are there? \_\_\_\_\_ Strategy: \_\_\_\_\_