

POW # 3

1. *Problem Statement:* You need to find the number of squares in an 8 by 8 square. You also need to find a pattern for finding the number of squares in any size square

2. *Process:* Well to solve this problem, I first made an 8*8 chart.

Blank 8*8 Chart

I then found a 1 by 1 square in the box. I marked the squares in the square in the square with X's. I can also start one on the 2nd row.

X							

8*8 Square with a 1*1 box

	X						

8*8 Square with another 1*1 box

X							

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8*8 Chart with 2 nd row 1*1 square.

I then figured I could do this for all 64 squares. I then moved onto 2*2 squares.

X	X						
X	X						
8*8 chart with a 2*2 box							

I then did another 2 by 2 chart. I can also have squares overlap others. I then figured out that I could not start a 2*2 square of the last row and column of the chart. I could fit only 7 rows by 7 columns of 2*2 squares, for a total of 49 squares.

	X	X					
	X	X					
8*8 Chart with another 2*2 square							

X	X						
X	X						
8*8 Chart with 2 nd row 2*2 square.							

							X
							X
							O
							O
							O
							O
							O
							O
O	O	O	O	O	O	O	O

