Areas of Squares

Instructions:

1. Measure the side of each square in centimeters.
2. Find the maximum number of objects that will fit within each square.
3. Record your results in the table below.

S = Number of Square	L = Length of Side in cm	N = Number of Objects that fit Inside
1		
2		
3		
4		
5		

4. Draw a graph of the N as a function of S.

5. Find an equation for N as a function of S.

6. Find an equation for L as a function of S.

7. Find an equation for N as a function of L.

8. Write an inequality for N as a function of S and shade in the area that it represents on your graph.

9. What type of function is N vs. S?

10. Make a prediction for N if S is 20.