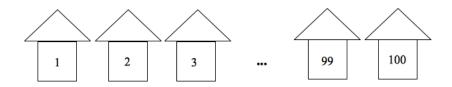
$\begin{array}{c} \text{Meeting 4} \\ 2/5/12 \end{array}$

January 31, 2012

1. There are 100 houses on a street in a new neighborhood. The builders are ordering digits from HomeDepot so that they can number all the houses:



(a) How many digits 0 should they order?

(b) How many digits 9 should they order?

(c) How many digits 3 should they order?

(d) How many digits 7 should they order?

(e) How many digits 1 should they order?

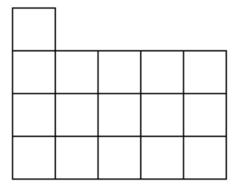
- 2. Jack loves to play with the light switch at his table. To turn the light on, Jack has to press a button. To turn the light off, Jack has to press the button one more time.
 - (a) One day, Jack walks into the his bedroom and it is dark. He presses the button 101 times. Will the light be on or off after that?

(b) What if he presses the button 500 hundred times?

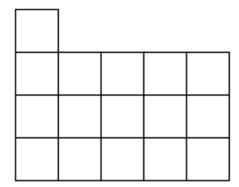
(c) Can this idea be generalized?

3.	Cut	the	follow	ving	pictu	re ir	nto 4	4 par	rts	whic	ch
	have	e the	same	num	ber o	f squ	ares	and	the	e san	ne
	shap	oe.									

- (a) How many squares are there total?
- (b) How many squares should each part have?
- (c) Cut the picture:



(d) Cut the picture again. (There is two ways to do this):



eft and write ype on the rig	down the nurght.
Type of Rectangle	Number of that Rectan

4. Below is a rectangle made up of smaller rect-

angles.

5. This ti	ime you	ı are g	given th	nis rectangle:

• Make a plan to solve the problem and find out the total number of rectangles.

6. Molly and Jane each have 10 stamps. Molly wants to give Jane some stamps for her 8th brithday. How many stamps should Molly give to Jane so that Jane has 8 more than Molly. Make a picture!

7. Put signs (+ or -) betweens the numbers below to make the equality correct:

$$1 \square 2 \square 3 \square 4 \square 5 = 5$$

(a)

1 2 3 4 5 6 7=8