Talk with your group about this and come up with a rule or equation. I will get you your poster soon.

Staircase Towers

Below is a staircase tower that is made by starting with 3 cubes and adding two cubes to get each successive tower.

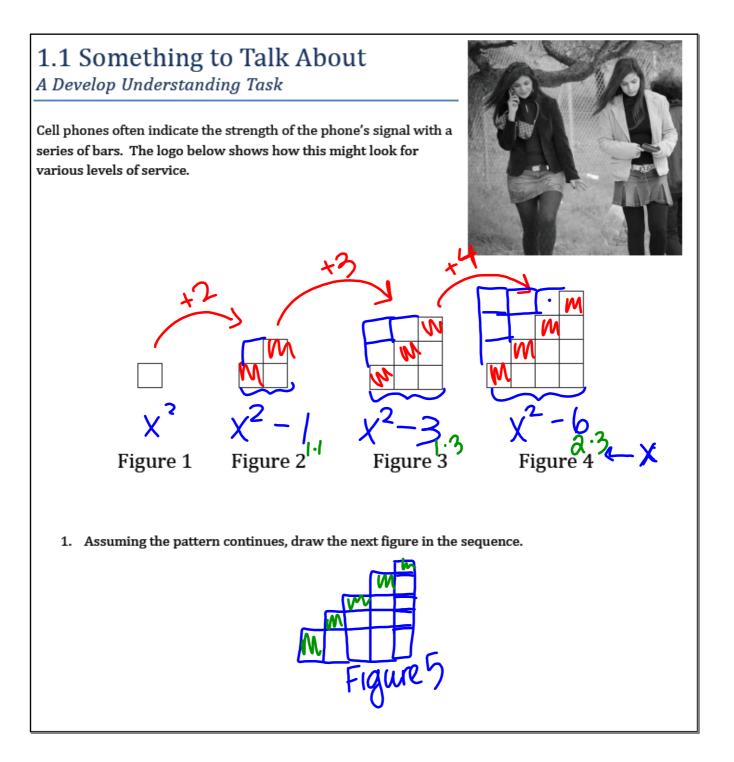
How many cubes will be in the 10th tower?

How many cubes will be in the nth tower? f(n) = 2n+1 y(x) = 2x+1 f(x) = 2x+1

*Make a poster of your groups answers and thinking. Link the diagram to your rule or formula to determine the number of cubes in the nth tower. Be ready to explain your group's thinking to the class!

· y= pan + b
· y= b·an
· constant slope/
rate of change # each time

• + /- same



- 2. How many blocks will be in the size 10 logo? |0+9+8+7+6+5+4+3+2+| = 55 blocks
- Examine the sequence of figures and find a <u>rule or formula</u> for the number of tiles in any figure number.

Homework/Classwork

Finish 1.1