Unit 2 Journal

Complete the following as you come to them in class.

What are the steps you use to solve a problem? I try to learn the exact specifications of the problem, and then I use what I know to get the answer.

How is solving this kind of problem the same/different from how you solve a problem in “real life”?

How high can you count with your ten fingers? 10

What message is being sent with the Christmas tree lights?

List examples of where it matters whether items are in order (sorted). Word documents, records in a filing cabinet, and disc cases

Day One and Two:

What you could do and what information you need:

• Find out how many trash cans and recycling containers there are so you could possibly add more

• Find out how many people are paying for trash and recycling so you could possibly encourage more people to get trash and recycling services

• An idea would be to have prisoners or community service workers pick up the trash

• If the previous idea wouldn't work, you could possibly hire government workers to pick up the trash

• You could have the fine for littering be raised

How you would get that information:.

◦ You could get the data for idea number three buy taking a sample of how many trash cans are in an area, and using that to estimate how many trash cans are in the city

◦ You could get the data for idea number two by just asking the recycling and trash companies

Candy Bar Activity:

Six

My strategy is to cut each of the bars in half

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1000

8

h

101

5

e

1100

12

l

10000

16

p

1001

9

i

1101

13

m

10100

20

t

10010

18

r

1

1

a

10000

16

p

10000

16

p

101

5

e

100

4

d

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1001=9

1010=10

10001=17

10=2

11111=31

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Lego Tower

5 Stack

Week 1 I made two stacks of two

Week 2 I stacked the two stacks of two on top of each other

Week 3 I put the last story on the four-stack

10 Stack:

Week 1 I made five stacks of two

Week 2 I made two stacks of four with a two-stack left over

Week 3 I made one eight-stack with a two-stack left over

Week 4 I put the two-stack on the eight-stack to complete the tower

20 Stack:

Week 1 I made ten stacks of two

Week 2 I made five stacks of four

Week 3 I made two eight-stacks with a four-stack left over

Week 4 I made a sixteen-stack with a four-stack left over

Week 5 I completed the tower by putting the four-stack on the sixteen-stack

100 Stack:

Week 1 I made fifty stacks of two

Week 2 I made twenty-five stacks of four

Week 3 I made twelve stacks of eight with a four stack left over

Week 4 I made six stacks of sixteen with a four stack left over

Week 5 I made three stacks of thirty-two with a four left over

Week 6 I made a sixty-four-stack with a thirty-two-stack and a four-stack left over

Week 7 I made a ninety-six with a four stack left over

Week 8 I completed the tower