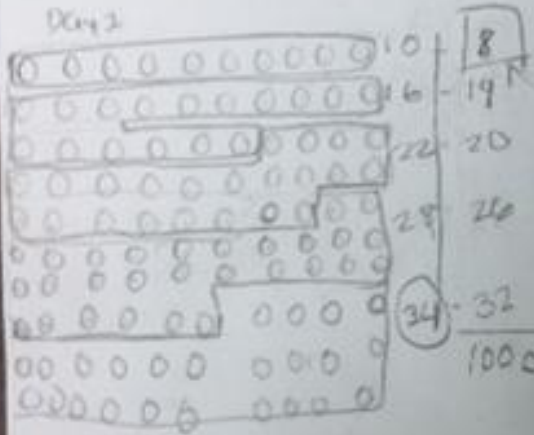**Jessica**

Name: Jessica ████████

Cookie Problem

Directions: Solve the following problems in any manner that you choose. Please include the full solution below along with an explanation of your solution.

Tim ate 100 cookies in 5 days. Each day he ate 6 more than the day before. How many cookies did he eat on the first day?

Day 1

$10 \div 5 = 2$ extra cookies each day

$10 + 8$
$16 - 14$
$22 - 20$
$28 - 26$
$34 - 32$
____
100 cookies

I subtracted 2 cookies off my previous answers because the first time I added all the #'s I ended up w/ 10 extra cookies.

10 Day 1
+16 Day 2
____
26
+22 Day 3
____
48
+28 Day 4
____
76
+34 Day 5
____
110

10 0000000
200000000
30 00000
400 0000
500000000

Ambrose

Name _Ambrose ████████_

Cookie Problem

Directions: Solve the following problem in any manner that you choose. Please include the full solution below along with an explanation of your solution.

Tim ate 100 cookies in 5 days. Each day he ate 6 more than the day before. How many cookies did he eat on the first day?

$100 \div 5 = 20$ If he were to eat 20 in 5 day. It would equal 100.

$6 \times 5 = 30$ 30 additional cookies in 5 days

$100 - 30 = 70$ how many cookies he would have eaten If he never added the 5/6es

$70 \div 5 = 14$ There fore he probably ate 14 on the first day

14 days 1
20 days 2
26 days 3
32 days 4
38 days 5
180

```
  7
 13       (8)
 14       14
 25       20
 31       26
 45       32
          100
```

Started with 8

Monica

Name **Monica**

Cookie Problem

Directions: Solve the following problem in any manner that you choose. Please include the full solution below along with an explanation of your solution.

Tim ate 100 cookies in 5 days. Each day he ate 6 more than the day before. How many cookies did he eat on the first day?

6

$$1N + 6N + 6n + 6n + 6n = 100$$

$$\frac{25N}{25} = \frac{100}{25}$$

$$N = 4$$

$$6N = 6 \cdot 4 = \begin{array}{r} 24 \\ \times 4 \\ \hline 96 \\ +4 \\ \hline 100 \end{array}$$