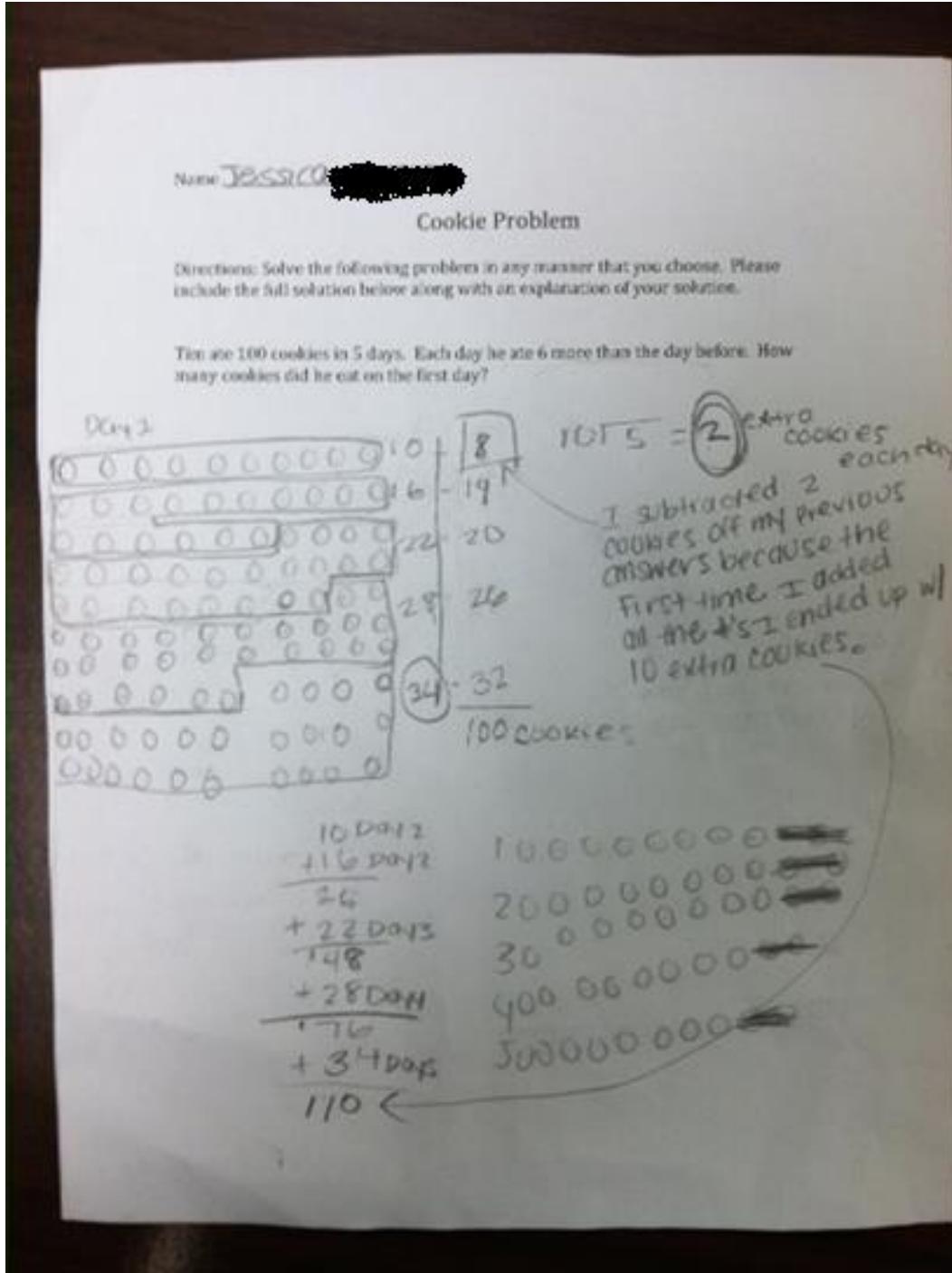


Jessica



Ambrose

Name Ambrose [REDACTED]

### 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 30's

$70 \div 5 = 14$  Therefore we probably ate 14 on the  
first day

1st day:

2nd day:

3rd day:

4th day:

5th day:

$\frac{14}{14}$

7

13

19

25

31

$\frac{95}{95}$

14

20

26

32

$\frac{100}{100}$

Starved  
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?

$$1N + 6N + 12N + 18N + 24N = 100$$

6

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

$$N = 4$$

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

# Attiba

## The Cookie Problem

Guess And Check

Todd ate one hundred cookies in five days. Each day he ate six more than he did the day before. How many cookies did he eat on the first day?

$$\begin{array}{r} 100 = 5n + 6 \\ - 6 \\ \hline 94 = 5n \end{array}$$

$$\begin{array}{r} \text{total} \\ 100 = 5n \\ - 6 \\ \hline 94 = 5n \end{array}$$

$$\begin{array}{r} 100 = 5(6) + n \\ - 30 \quad 30 \\ \hline 70 = n \end{array}$$

HE ATE  
TEN COOKIES  
ON THE 1st DAY

$$\begin{array}{r} 100 = \\ - 95 \\ \hline 5 = \end{array}$$

$$5 = 100 + 6n$$

$$100 = 100$$

$$\frac{95}{6} =$$

$$100 = 58$$

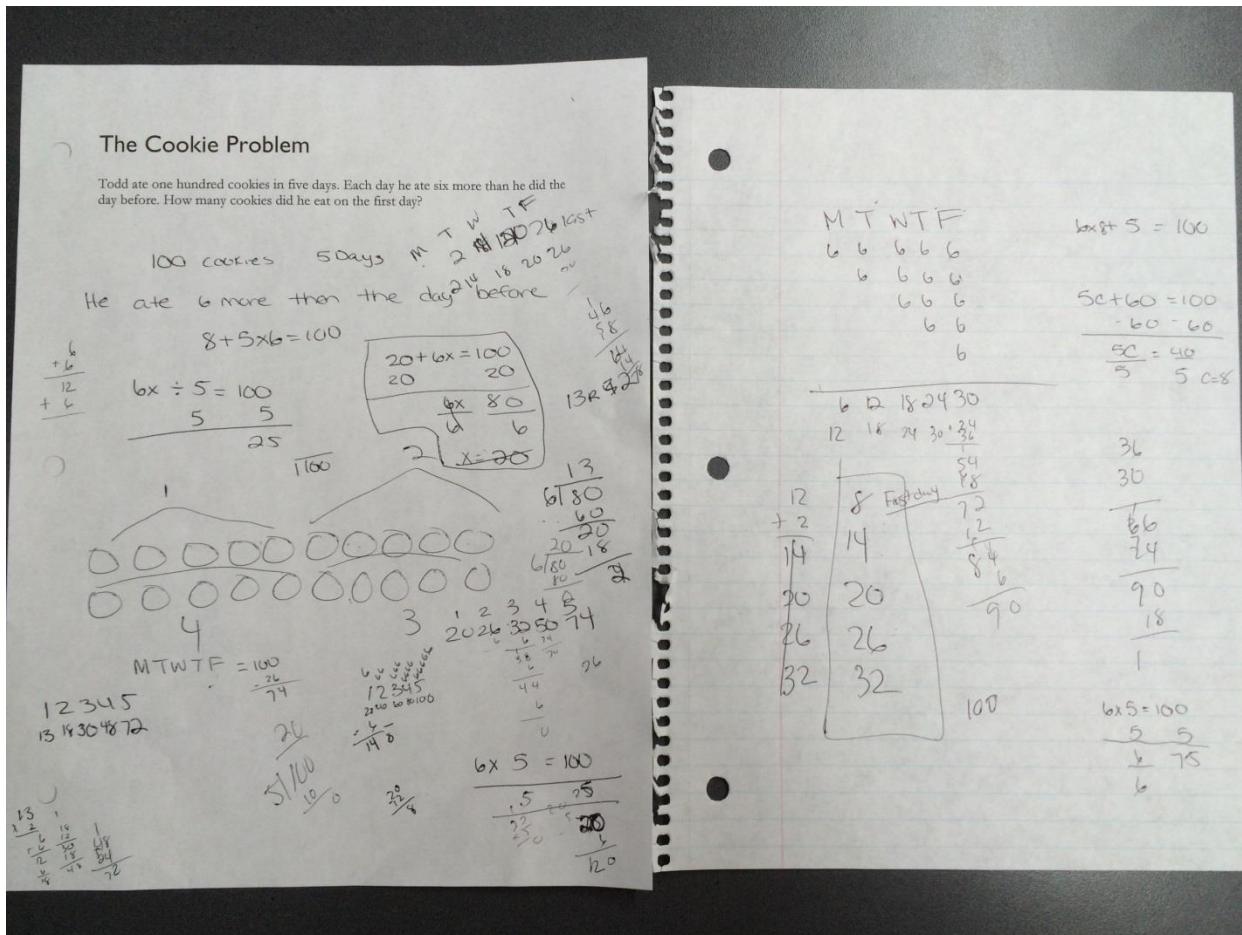
## Attiba Cont'd

$$100 = 5 \Delta x$$

M T W T F  
6 12 18 24 30

$$\begin{array}{r}
 100 = 5 \text{ day} + 36 \\
 \underline{+ 6} \\
 \hline
 50 \\
 \underline{+ 6} \\
 \hline
 42 \\
 \\
 \begin{array}{r}
 10 \\
 \underline{+ 6} \\
 \hline
 16 \\
 \underline{+ 12} \\
 \hline
 28 \\
 \underline{+ 12} \\
 \hline
 40 \\
 \underline{+ 18} \\
 \hline
 58 \\
 \underline{+ 12} \\
 \hline
 70 \\
 \underline{+ 18} \\
 \hline
 88 \\
 \underline{+ 12} \\
 \hline
 100 \\
 \end{array}
 \end{array}$$

Kailin



Jean

<u>five day</u>					500c
monday	tuesday	wednesday	thursday	friday	= 500)
100 c	100 c	100 c	100 c	100 c	
20	20	20	20	20	
8.	14	20	26	32	
<u>10</u>	16	22	28	34	
6 12 18 18 <u>-36</u> <u>+24</u> 60 <u>+30</u> <u>90</u>	10 16 <u>26</u> <u>22</u> <u>14</u> <u>8</u> <u>+28</u> <u>-76</u> <u>+34</u> <u>110</u>	8 20 26 32 <u>100</u>			100 20 <u>+26</u> <u>146</u>
					10 +90 <u>100</u>
					90

Elda

