Jakki [redacted] December 14, 1993

a 3rd of a meter is 39 cm 3 meters = 9 bows. 9 meters = 27 bows. 27 meters = 81 bows. 81 meters = 243. 243 meters = 729. 729 meters = 2,187. 2,187 meters = 6561. 6561 meters = 19683. 19683 = 59049. 59049 meters = 177147. 177147 meters = 531441. 531441 meters = 1594323. 1594323 meters = 4782969. 4782969 meters = 14348907. 14348907 meters = 43046721. 43046721 meters = 129140163. 129140163 meters = 387420489 meters.

729
729
+729
2187

81
81
+81
243

16
8
4

243
243
243
729

285441999991

1,2914016
1,2914016
+1,2914016
3,8742048
3,8742048
3,8742048
11,6827924
11,6827924
11,6827924
35,0489772
35,0489772
35,0489772
95 149997
95 149997
+95 149997
285 449991

18
9
27
16
8
24
16
+8

Jacqueline [redacted] 12/14/93
Math 4-PM

1. 3 meters × 3 meters = 9 meters
3 meters + 3 meters + 3 meters = 9 m

2. 9 × 3 = 27 m

3 27 × 3 = 81 m

4 81 × 3 = 243 m

5 $\begin{array}{r} {}^{1}2\,4\,3 \\ \times \quad 3 \\ \hline 7\,2\,9 \end{array}$

6 $\begin{array}{r} {}^{2}7\,2\,9 \\ \times \quad 3 \\ \hline 2\,1\,8\,7 \end{array}$

7 $\begin{array}{r} 2,1\,{}^{2}8\,7 \\ \times \quad 3 \\ \hline 6\,5\,6\,1 \end{array}$

$\begin{array}{r} 6\,5\,6\,1 \\ \times \quad 3 \\ \hline 1\,9\,6\,8\,3 \end{array}$

$\begin{array}{r} {}^{2\,2\,2}\,1\,9\,6\,8\,3 \\ \times \quad 3 \\ \hline 5\,9\,0\,3\,9 \end{array}$

$\begin{array}{r} 5\,9\,0\,3\,9 \\ \times \quad 3 \\ \hline 1\,7\,7\,1\,4\,7 \end{array}$

$\begin{array}{r} 1\,7\,7\,1\,4\,7 \\ \times \quad 3 \\ \hline \end{array}$

[redacted]

5 4 1 4 4 1

$$\begin{array}{r} 54441 \\ \times\quad 3 \\ \hline 162432 \\ \times\quad 3 \\ \hline 4872969 \\ \times\quad 3 \\ \hline 14617887 \\ \times\quad 3 \\ \hline 43852661 \\ \times\quad 3 \\ \hline 131570143 \\ \times\quad 3 \\ \hline \end{array}$$

Andra [redacted] Dec. 14, 1993

A third of a meter is 39 centimeters.

3 meters = 9 bows

9 meters = 27 bows
27 meters = 81 bows
81 meters = 243 bows
243 meters = 729 bows
729 meters = 2,187 bows
2,187 meters = 6,561 bows
6,561 meters = 19,683 bows
19,683 meters = 59,049 bows
59,049 meters = 177,147 bows
177,147 meters = 531441 bows
531441 meters = 1594323 bows
1594323 meters = 4782969 bows
4782969 meters = 14348907 bows
14348907 meters = 43046721 bows
43046721 meters = 129140163 bows
129140163 meters = 387420489 bows
387420489 meters = 1162261467 bows
1162261467 meters = 3486784401 bows
3486784401 meters = 10460353203 bows
and on, and on, and on, and on...

$$\begin{array}{r} +1 \\ 243 \\ 243 \\ +243 \\ \hline 729 \end{array} \qquad \begin{array}{r} +1 \\ 27 \\ 27 \\ +27 \\ \hline 81 \end{array} \qquad \begin{array}{r} 81 \\ 81 \\ +81 \\ \hline 243 \end{array}$$

$$\begin{array}{r} +2 \\ 729 \\ 729 \\ +729 \\ \hline 2187 \end{array}$$

Jessica [redacted]
Math

Dec 14, 1993
4-Phillips

I think you can make 3 bows out of one meter ribbon. Out of 3 meter ribbon you can make 9 bows. Out of 9 meters you can make 27 bows. out of 27 meters you can make 81 bows. Out of 81 meters you can mak 243 bows bows.

20

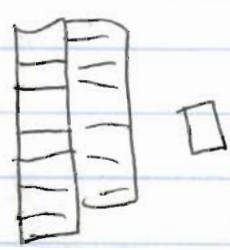
$$\begin{array}{r} \boxed{+2}\ 27 \\ \times\ 3 \\ \hline 81 \end{array}$$

$$\begin{array}{r} 3 \\ \times\ 27 \\ \hline \end{array}$$

$$\begin{array}{r} 2\ 27 \\ 27 \\ 27 \\ \hline 81 \end{array}$$

$3 \times 7 = 21$

$$\begin{array}{r} 3 \\ \times\ 7 \\ \hline 21 \end{array}$$



Beth [redacted]
Math

December 14, 1993
4- Phillips

I think you can make 3 bow out of 1. Out of 3 meters you can make 9 bows. Out of 9 meters you can make 27 bows. Out of 27 meters you can make 81 bows. Out of 81 meters you can make 243 bow.

B

$$\begin{array}{r} {}^{2} \\ 27 \\ +\,27 \\ 27 \\ \hline 81 \end{array}$$

27

$$\begin{array}{r} {}^{2}27 \\ \times\ 3 \\ \hline 81 \end{array}$$

$$\begin{array}{r} {}^{3} \\ \times 7 \\ \hline 21 \end{array}$$

$\cancel{\times\ 27\ 3}$

Andrew [redacted] 12/14/93
Math 1/3rds

① 3 meters X 3 meters = 9 m.

② 9 meters × 3 meters = 27 meters

③ 27 meters × 3 meters = 81 meters

④ 81 meters × 3 meters = 243 meters

⑤ 243 meters × 3 meters = 729 meters

⑥ 729 meters × 3 meters = 2,187 meters

⑦ 2,187 meters × 3 meters = 6,561 m.

⑧ 6,561 meters × 3 meters = 18,683 m.

⑨ 18,683 meters × 3 meters = 58,049 m.

⑩ 58,049 meters × 3 meters = 168,147 m.

⑪ 168,147 meters × 3 meters = 504,441 m.

⑫ 504,441 meters × 3 meters = 1,594,323

(13) 1,594,323 meters x 3 = 4,782,969 m. (meters)

(14) 4,782,969 meters x 3 = 14,348,907 m. (meters)

(15) 14,348,907 meters x 3 = 43,046,721, m. (meters)

(16) 43,046,721 meters x 3 meters = 129,140,163 m.

(17) 129,140,163 meters x 3 meters = 387,420,489 m.

(18) 387,420,489 meters x 3 meters = 1,162,261,467

(19) 1,162,261,467 meters x 3 meters = 3,486,784,401

(20) 3,486,784,401 meters x 3 meters = 10,460,353,203

James [redacted] 12/14/13

1. 3 meters X 3 meters = 9m.
2. 3 meters X 9 meters = 27m.
3. 3 meters X 27 meters = 81 m.
4. 81 meters X 3 meters = 243m.
5. 243 meters X 3 meters = 729m.
6. 729 meters X 3 meters = 2,187m.
7. 2187 meters X 3 meters = 6,561m.
8. 6561 meters X 3 meters = 18,683 m.
9. 18683 meters X 3 meters = 56,049
10. 56,049 meters X 3 meters = 168,147
11. 168,147 meters X 3 meters = 504,441
12. 504,441 meters X 3 meters = ~~1,513,323~~ 1,514,323

James [redacted]

(13) 159,323 meters X 3 meters = 478,969

(14) 478,969 meters X 3 meters = 14,348,907

(15) 14,348,907 meters X 3 meters = 43,046,721

(16) 43,046,721 meters X 3 meters = 129,140,163

(17) 129,140,163 meters X 3 meters = 387,420,489

(18) 387,420,489 meters X 3 meters = 1,162,261,467

(19) 1,162,261,467 meters X 3 meters = 3,486,784,401

(20) 3,486,784,401 meters X 3 meters = 10,460,353,203

387,420,484 × 3 = 1,162,261,467

1,162,261,467 × 3 = 3,486,784,401

3,486,784,401 × 3 = 10,460,353,203

81 × 3 = 243

243 × 3 = 729

729 × 3 = 2187

2187 × 3 = 6561

6561 × 3 = 19683

19683 × 3 = 59049

59049 × 3 = 177147

14,348,907 × 3 = 43,046,721

1594323 × 3 = 4782969

4782969 × 3 = 14,348,907

129,140,163 × 3 = 387,420,489

387,420,489 × 3 = 1,162,261,467

168147 × 3 = 504441

504441 × 3 = 1513323

43,046,721 × 3 = 129,140,163

Laura [redacted]
Math bows

Dec. 14, 1993
4 - Phillips

I think you can make 3 bows out of 1 meter. Out of 3 meters you can make 9 bows. Out of 9 meters you can make 27 bows. Out of 27 meters you can make 81 bows. Out of 81 meters you can make 243 bows.

$$\begin{array}{r} 81 \\ \times\ 3 \\ \hline 243 \end{array}$$

$$\begin{array}{r} 2 \\ 27 \\ 27 \\ +27 \\ \hline 81 \end{array}$$

$$\begin{array}{r} +2 \\ 27 \\ \times 3 \\ \hline 81 \end{array}$$

$$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$$

3
6
9
12
15
18
21
24
27
30
33
36
39
42
45
48
51
54
57
60
63
66
69
72
75
78
81
84
87
90
93
96
99

101
104
107
110
113
116
119
122
125
128
131
134
137
140
143
146
149
151
154
157
160
163
166
169
172
175
178

25

Erin
Math

12/14/93
Mrs. Phillips

If there is 9 meters of ribbon and each bow is $\frac{1}{3}$ than you can make 27 bows because $9 \times 3 = 27$.

Michael [redacted]

~~3+3+27~~ Math Bowl

12/13/93

4-Phillips

3
3
+3
9

3
3
3
3
3
3
3
3
+3
27

27
× 3
81

81
× 3
243

243
× 3
729

729
× 3
2187

2187
× 3
6561

6561
× 3
19,683

19,683
× 3
59,049

59,049
× 3
177,147

177,147
× 3
531,441

531,441
× 3
1,594,323

1,594,323
× 3
4782969

4782969
× 3
14348907

14348907
× 3
43046721

43046721
× 3
129140163

Michael [redacted]

129,140,163
X 3
387,420,489
X 3
1,162,262,467
X 3
3,486,786,801
X 3
10,460,360,403
X 3
31,381,081,209
X 3
94,143,243,627
X 3
282,429,730,881
X 3
847,289,192,643

Amy
Math

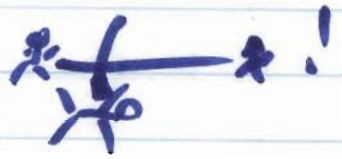
12/14/93

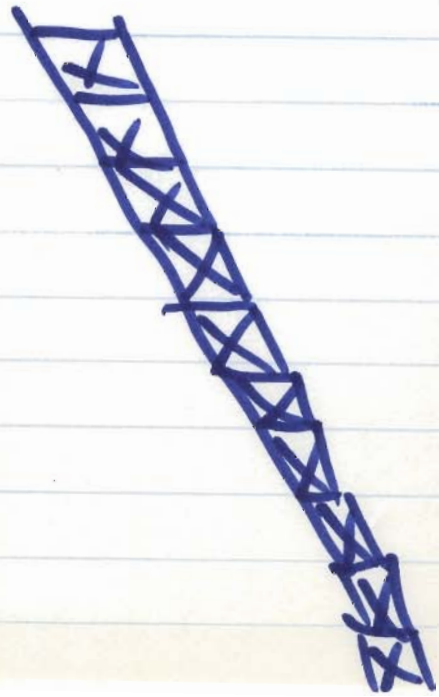
9	847.23921
27	2.541.7176
81	7625.1529
243	2.2875.459
729	6.8626.376
2187	2.05879.13
6561	6.17637.38
19683	1.852912.10
59049	5.558736.40
177147	1.667620.9
531441	5.002862.8
1594323	1.5.008588
4782969	45.025765
14348907	135.0773
43044921	405.23189
1.29132263	1215.6957
3.87391889	3647.087
11.621937	1.0941261
34.865811	328.23.783
10.459743	9847.1.348
31.37923	295414.05
44.13769	8862421.4
2.82.41307	2.658726.40

Caitlin [redacted] December 14, 198

Math. 4 Phillips

If there are 9 meters of ribbon and each ribbon is 1/3 of a meter you can make 27 ribbons.





Caitlin [redacted] December 14, 19??
Math 4 Phillips

Kimberly [redacted] Dec. 14, 1993

$$\begin{array}{r} {}^{2} \\ 27 \\ \times\ 3 \\ \hline 81 \end{array} \qquad \begin{array}{r} {}^{2} \\ 27 \\ \times 3 \\ \hline 1 \end{array}$$

$3 \times 7 = 21$

$$\begin{array}{r} {}^{2} \\ 27 \\ \times\ 3 \\ \hline 61 \end{array} \quad {}^{2} + 20 = 81$$

Brian F[redacted] Dec. 14 Math

1	3m	2187	43046721
	× 3m	× 3	× 3
	9	6561	18530201
			× 3
2	9	6561	55590603
	× 3	× 3	× 3
	27	19683	1.667718
			× 3
	27	19683	5.03154
	× 3	× 3	× 3
	81	59049	15.09462
		× 3	× 3
	81	177147	42.28386
	× 3	× 3	× 3
	243	531441	135.85158
		× 3	× 3
	243	1594323	407.755474
	× 3	× 3	× 3
	729	4782969	1222.6642
		× 3	× 3
	729	14348907	3667.9927
	× 3	× 3	× 3
	2187	43046721	11003.978

Sarah [redacted] Dec. 14, 1993

Math Bows 4- Mrs. Phillips.

3	531,441
3	x 3
+ 3	1,594,323
9	4,782,969
x 3	14,348,907
27	43,046,721
x 3	129,140,163
81	387,420,489
x 3	1,162,262,267
243	3,486,786,801
x 3	10,460,360,403
729	31,381,081,209
x 3	94,143,243,627
2,187	282,429,730,881
x 3	
6,561	
x 3	
19,683	
x 3	
59,049	
x 3	
177,147	
x 3	
531,441	

A. L. '93

1. $\begin{array}{r} 27 \\ \times\ 3 \\ \hline \end{array}$ = $20 \times 3 = 60$

2 $\begin{array}{r} \cancel{2}7 \\ \times\ 3 \\ \hline \end{array}$ $7 \times 3 = 21$

3. $\begin{array}{r} 60 \\ +21 \\ \hline 81 \end{array}$

$1 \div \frac{1}{2} = 2$

$1 \div \frac{1}{3} = 3$

$1 \div \frac{1}{4} = 4$

$1 \div \frac{1}{5} = 5$

$1 \div \frac{1}{10} = 10$

$2 \div \frac{1}{2} = 4$

$2 \div \frac{1}{3} = 6$ $\quad 2 \times 3 = 6$

$2 \div \frac{2}{3} =$ $\quad 3, 4$

$$3 \div \frac{1}{3} = 3 \times 3 = 9$$

$$3 \div \frac{1}{3} = 3 + 3 + 3 = 9$$

$$9 \div \frac{1}{3} = 27$$

$$9 \div \frac{1}{3} = 9 \times 3 = 27$$

$$9 \div 3 = 3$$

If there are 9 meters of ribbon and each ribbon is $\frac{1}{3}$ of a meter you can make 27 ribbons

Erik
David

[redacted]

3 meters of ribbon
bows are 1/3 of a meter
How many bows can we make?

---

9 meters of ribbon
bows are $\frac{1}{3}$ of a meter
How many bows?

---

9 meters of ribbon
bows are 3 meters
How many bows?

---

27 meters of ribbon
bows are 3 m ; $\frac{1}{3}$ m
How many bows?

Alan [redacted]
Math

Dec. 14, 1993
4 Ph

1. $\cancel{27}$
$\times 3$

2. 20
$\times 3$
60

3. $\cancel{2}7$
$\times 3$
21

4. $21 + 60 = 81$

I did the problem this way because it would be easier to understand.

In step 1, you take the 7 off the 27 and you get 20.

In step 2, you do this. You multiply 20 three times and you get 60.

In step 3 you now only have the 7 left, so you multiply 7×3 and get 21.

In step 4, you add your 2 answers, 60 and 21 and get 81.

847, 28, 9/19/43

Michael [redacted] 12/13/43
Math Bowo

I tinesd every thing by 3. For exemple 3X3=9x3=27X3=81. I did this because there are 3 1/3 in a meter and you take the 3 and times it by ~~whatever~~ ~~however~~ whatever number of meters you have so I kept doing that and got alot of answers. I think this works because it takes 3 1/3 to equal a whole (or meter) and then you have a certain amount of meters and you times that by 3 because it it takes 3 1/3 to equal a meter.

Laura [redacted]
Math

Dec. 14, 1993
4-P Phillips

1) I think out of 1 meter you can make 3 bows. I think this because there are 3 1/3 in 1 meter.

2) I think out of 3 meter you can make 9 bows. I think this because there are 9 1/3's in 3 meters.

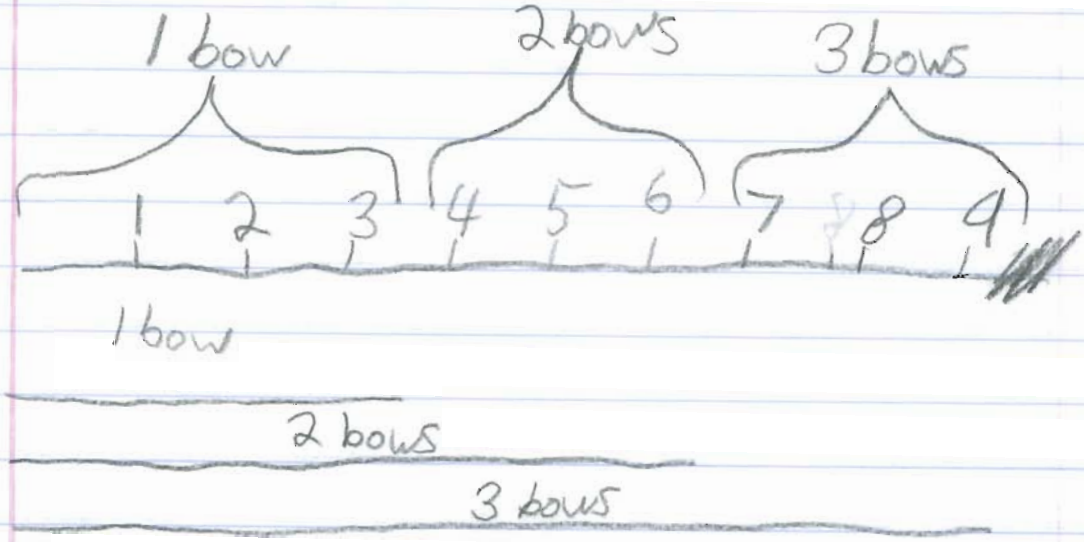
3) I think out of 9 meters you can make 27 bows. I think this because there are 27 1/3's in 9 meters.

4) I think out of 27 meters you can make 81 bows. I think this because there are 81 1/3's in 27 meters

5) I think out of 81 meters you can make 243 bows. I think this because there are 243 1/3's in 81 meters

Dave [redacted] Dec 14, 1993
Mathematics

Eric, Brian C., Caitlin, Erin and I worked on the 9 meters problem. Each bow was 3 meters so 9-3=6, 1 bow, 6-3=3, 2 bows, and 3-3=0, 3 bows. We also could have just said 3X3=9 but thats how you can prove it. this can prove it!



Erik[redacted] 12/14/93
Math 4-Phillips

In math I measured the 9 meter ribbon and if each bow is 3 meters long you can make 3 bows. If each bow is $\frac{1}{3}$ of a meter you can make 27 bows. If you have 9 meter ribbon and divide it into 3 parts each part would be 3 meters. If you divided 9 meter ribbon into 27 parts each part would be $\frac{1}{3}$ of 1 meter.

Kimberly [redacted] Dec. 14, 1993
math blows 4-Phillips

The problem I worked on was $27 \times 3 = 81$. This is the way I do the problem.

$$\begin{array}{r} {}^{2}27 \\ \times\ 3 \\ \hline 81 \end{array}$$

I do

$$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$$

I write the one down the one and carry the two.

$$\begin{array}{r} {}^{2}27 \\ \times\ 3 \\ \hline 81 \end{array}$$

I do $\begin{array}{r} 3 \\ +2 \\ \hline 6 \end{array}$ and add the two that I carried and add it two the six and get eight. That is how I get my answer.

In the problem the 27 is really 27 meters and the 3 is really $\frac{1}{3}$. They are

used like a regular 27
and 3. That is the
best I can explain it.
I am still a little confused
with my own problem.

Mary Ann

Beth [redacted]
Math bows

December 14, 1993
4- Phillips

I made 3 bows out of 1 meter. I think that works because a 3rd means one out of 3 pieces. Out of three meters you can make 9 bows since multiplying 3X3 equals 9. I can make 27 bows out of 9 meters, since multiplying 3X9 equals 27. Out of 27 meters I can make 81 bows, since multiplying 3X27 equals 81. I can make 243 bows out of 81 meters since multiplying 3X81 equals 243.

Why can you carry?

I think you can carry numbers, but if the number is going in the 10's column it has to have a ten value. Same with the 100's 1,000's ect.

Jessica [redacted]
Math bows

Dec 14, 1993
4-Phillips

What I did and why.

Today in Math we had ribbon and we had to figure out how marry bows we can make out of it. Say you have 1 meter you can make 3 bows if you have 3 meters you can make 9 bows. If you have 9 meters you can make 27 bows. If you have 27 meters you can make 81 bows. out of 81 meters you can mak 243 bows. We did this by keep adding threes or multiplying.

EXAMPLE ..... $\overset{+2}{9} \times 3 = 27$, $\overset{+2}{27} \times 3 = 81$, $\overset{+2}{81} \times 3 = 243$, $243 \times 3 = 729$

→

$$\begin{array}{r} {}^{+2}\,729 \\ \times \quad 3 \\ \hline 2187 \end{array} \qquad \begin{array}{r} {}^{+2\,+2}\,2{,}187 \\ \times \quad 3 \\ \hline 6{,}561 \end{array}$$

$$\begin{array}{r} {}^{+1}\,6561 \\ \times \quad 3 \\ \hline 19683 \end{array} \qquad \begin{array}{r} {}^{+2\,+2}\,19683 \\ \times \quad 3 \\ \hline 59049 \end{array}$$

$$\begin{array}{r} {}^{+1\,+2}\,{}^{+2}\,59049 \\ \times \quad 3 \\ \hline 177147 \end{array} \qquad \begin{array}{r} {}^{+2\,+2}\,{}^{+2}\,177147 \\ \times \quad 3 \\ \hline 531{,}441 \end{array}$$

$$\begin{array}{r} {}^{+1\,+1}\,531{,}441 \\ \times \quad 3 \\ \hline 1{,}594323 \end{array} \qquad \begin{array}{r} {}^{+2\,+1}\,{}^{+1}\,1594323 \\ \times \quad 3 \\ \hline 4{,}782{,}969 \end{array}$$

$$\begin{array}{r} {}^{+2\,+2\,+2\,+2\,+2}\,{}^{+2}\,4782969 \\ \times \quad 3 \\ \hline 14348907 \end{array} \qquad \begin{array}{r} {}^{+1\,+1\,+2\,+2\,+2}\,{}^{+2}\,14348907 \\ \times \quad 3 \\ \hline 43046721 \end{array}$$

Audra [redacted]

Dec. 14, 1993
4 Ph.

Math Bows

Jakki [redacted] and I started the problems by multiplying. For example, 3 meters of ribbon and we have to divide them by 3rds, would be 9. Because, there are 3 meters and there are 3 3rds 3X3=9. When the numbers got to big for the calculator we had to add because the numbers were too big for us to multiply. Our last number was 285449991!

Sarah [redacted]
Math Bows

Dec 14, 1943
4-Phillips

Today in math I x's by 3's and I got up to the hundred billions. I did it because the math teacher told me to. I needed to know how many bows you can make out of 13's.

Brian [redacted]
Math

Dec 14, 1993
4 Phillips

First we cut the string at 9ma and streched it out to see how long it was and we figured out the problem
Why we thought string might be easy and it helped.

Caitlin [redacted] December 17, 1997
Math 4 Phillips

I went out in the hall and worked on a problem.

How many bows can you makes with a meter?

Graham [redacted]
Math Bows

Dec. 14 1993
4-Phillips

For the first, second and third ~~question~~ questions Mark ~~an~~ Greg and I mesured string. ~~and~~ We did this because for each meter we put a little mark with a pen. We thought for each meter we could devide a meter into thirds to get are answer.

Gregory [redacted]
Math bous

Dec. 14 1995
P. Hillips

~~I did~~

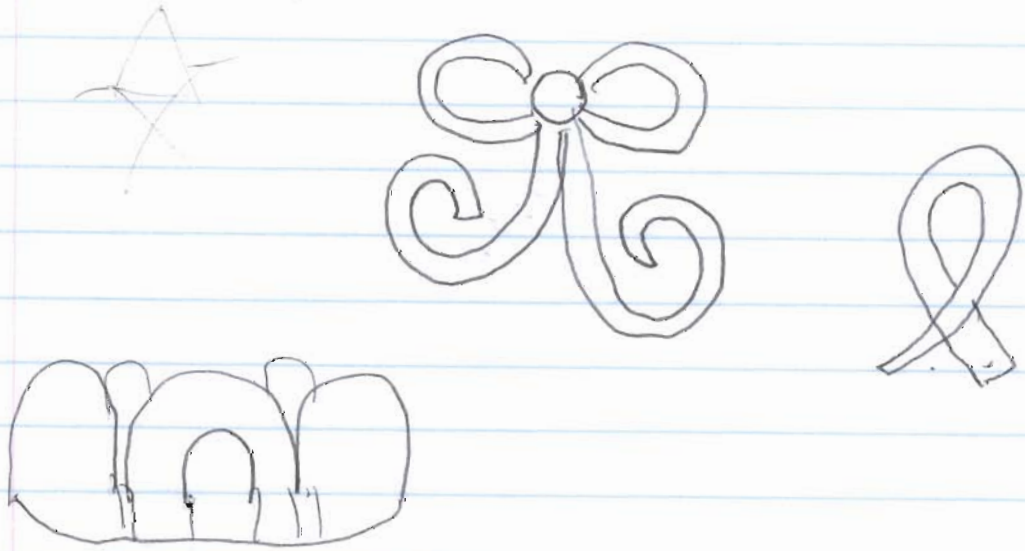
I went out in the hall because I is more fun and I only did it on the 4m. one & the 27m. one because the other ones were to big. When we got to the big once I used a calculater. I soon had to stop because we had to talk about it. I thaut it was fun and it was easy anuff that I could do it with no problem. I had lots of fun.

Jacqueline [redacted]
Math

12/14/93
4-Pal

Math Bows

I kept dividing by threes. I did this because the first problem's answer was $3 \times 3 = 9$. Then we took the 9 and did $9 \times 3 = 27$. We thought this because there was 3 meters x 3 meters. (We got some help from others) We also thought that it would go by a pattern.



Mark [redacted] Dec. 14, 1993
Math bows

1.) I got 27 bows out of 9 meters of ribbon. I will prove it.

3
3
0
3
3
12
3
3
18
3
3
24
3
27

answer
27 bows

2.) I got 81 bows out of 27 meters of ribbon. I will show you my proof.

$$\begin{array}{r} 27 \\ \times \quad 3 \\ \hline 81 \end{array}$$

Danielle December 14, 1998
Math What you did + why 4-Ph

I xed it. Because if you think about it when you x everything by 3 it will work like

$$\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 3x \\ 3 \\ \hline \end{array}$$

Brian F[redacted] December 14

1) My group did the operation of multipuls:

$$
\begin{array}{r}
9 \\
\times 3 \\
\hline
27 \\
\times 3 \\
\hline
81 \\
\times 3 \\
\hline
243 \\
\times 3 \\
\hline
729 \\
\times 3 \\
\hline
\end{array}
$$

James [redacted] Dec 14 1993
Mathews Phillips

In math today Andrew Panico and I worked together. We used multiplacation for our problems. First we did three meters times three meters. The answer is nine. So we took nine meters and multiplied by three meters. The answer is twenty-seven etc. etc. Here are our first ~~five~~ three problems.

3X3=9

9X3=27

27X3=81

Andrew [redacted] 12/14/93
Math

Today with Rutgers me and James worked on the question how many bows can you make out of three meters and more if the bows were 1/3 of 1 meter. Me and James got up to around the 10 billion meter.

Me and James did this by multiplying because we wouldn't be able to measure about 10 billion meters in the hall.