

## Solution to Lots of Lollies

At first, I noticed that the number of lollies that I was splitting had to be an odd number or there would not have been anything left over. So, I made this table. The blue shows the number of lollies that Francis and Rishi share and the purple shows the lollies that Frances, Rishi, Kishan, Haley and Paul share. I tried a few different odd numbers and found that only a total of 7 lollies worked. Then I saw that 17 also works. Then I thought of the 100s chart and the 7s column. All the numbers in that column would work. I checked with a big number like 87 and it worked.

F	R	Left over	total	K	H	P	Left over	total	does it work?
3	3	1	7						
1	1			1	1	1	2	7	✓
4	4	1	9						
1	1			1	1	1	4	9	X
6	6	1	13						
2	2			2	2	2	3	13	X
7	7	1	15						
3	3			3	3	3	0	15	X
8	8	1	17						
3	3			3	3	3	2	17	✓

Lots of Lollies

7
17
27
37
47
57
67
77
87
97