

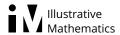
4.0A Double Plus One

Task

a. The table below shows a list of numbers. For every number listed in the table, multiply it by 2 and add 1. Record the result on the right.

number	double the number plus one
0	
1	
2	
3	
4	
5	
10	
23	
57	
100	
309	

b. What do you notice about the numbers you entered into the table?



- c. Sherri noticed that all the numbers she entered are odd.
 - i. Does an even number multiplied by 2 result in an even or odd number? Why do you think this is?
 - ii. Does an odd number multiplied by 2 result in an even or odd number? Why do you think this is?
 - iii. Does an even number plus 1 result in an even or odd number? Why do you think this is?
 - iv. Does an odd number plus 1 result in an even or odd number? Why do you think this is?
 - v. Explain why the numbers you entered in the table are all odd.



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