NAME _____ QUARTER 1

GRADE & SECTION _____ DATE _____

Activity: Geometric Series

A. Complete the table in describing the given geometric series.

	Finite or Infinite?	Common ratio (r)	SUM
1) $4+\frac{4}{5}+\frac{4}{25}+\frac{4}{125}+\cdots$			
2) $1-3+9-27+,\ldots$			
3) $2+1+\frac{1}{2}+\frac{1}{4}+\cdots$			
4) $-3-6-12-24,\ldots,n=8$			
5) $4+20+100+\cdots+312500$			

B. Determine the needed information to find the sum of the geometric series. (***note**: if infinite, just answer **"INF"**)*

1) Find the sum of the first 8 terms of the geometric series:

$$-1+2-4+8\ldots$$

$a_1 =$ ____ $n =$ ____ $r =$ ____

Final Answer: The sum is ____

2) Find the sum of the geometric series:

$$4-\frac{4}{3}+\frac{4}{9}-\frac{4}{27}\ldots$$

$a_1 =$ ____ $n =$ ____ $r =$ ____

Final Answer: The sum is ____

How many attempts? ___.
How well did you do?

 Need help!  Just OK!  Splendid

I LEARNED THAT…

_____

_____

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