NAME _____ QUARTER 1

GRADE & SECTION _____ DATE _____

Activity: Geometric Sequence

Complete the information to find what is asked given a geometric sequence. Recall that:

$$a_n = a_1 r^{n-1}$$

1) Find a_{11} of a geometric sequence $3, 6, 12, 24, \ldots$

$a_1 =$ ____ $r =$ ____ $n =$ ____ $a_{11} =$?

Final Answer: The 11th term is ____

2) Find 9th term of a geometric sequence $4, -12, 36, -108, \ldots$

$a_1 =$ ____ $r =$ ____ $n =$ ____ $a_9 =$?

Final Answer: The 9th term is ____

3) In a geometric sequence $\frac{1}{5}, \frac{1}{10}, \frac{1}{20}, \frac{1}{40}, \ldots$, what is a_{10}?

$a_1 =$ ____ $r =$ ____ $n =$ ____ $a_{10} =$?

Final Answer: The 10th term is ____

4) What term is 2048 in a geometric sequence $2, 4, 8, 16, \ldots$

$a_1 =$ ____ $r =$ ____ $n =$? $a_n =$ ____

Final Answer: The 2048 is the ____ **th of the sequence.**

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

 Need help!  Just OK!  Splendid

I THINK…

_____

_____

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