#### Warmup

The Army is accepting Christmas gifts for kids in need. Their goal is to take 500 toys in one day. The Army only receives 3 toys on the first day. However, on the 3rd day they receive 27.

How many toys are there in the first 4 days?

What would be the explicit and recursive formula for this?

Will they reach their goal by day 6? How many toys will they take that day?

## Geometric Meanies

### A Practice Understanding Task

Each of the tables below represents a geometric

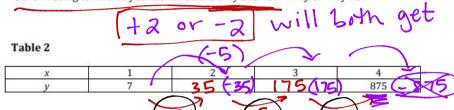
sequence. Find the missing terms in the sequence, showing your method. Table 1





12

Is the missing term that you identified the only answer? Why or why not?



Are the missing terms that yo



Table 3



Are the missing terms that you identified the or

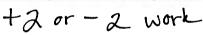
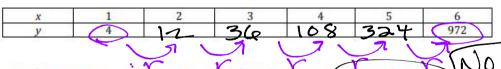
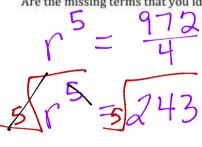




Table 4



Are the missing terms that you identified the only answers? Why or why not?



Calculator



$$5\sqrt{243}$$

A. Describe your method for finding the geometric means. Guess & Check Last term divide by first ter If you can my Hoply by it must have an E

# Given the following recursive formulas, create the GEOMETRIC explicit formulas

$$\begin{vmatrix} a_n = a_{n-1} \cdot 2 & 2(2)^{n-1} \\ a_1 = 2 & 2(2)^{n-1} \end{vmatrix}$$

$$a_n = a_{n-1} \cdot 3$$
$$a_1 = -3$$

## Given two terms in a geometric sequence find the 8th term and the recursive formula.

23) 
$$a_4 = -12$$
 and  $a_5 = -6$ 

24) 
$$a_s = 768$$
 and  $a_s = 12$ 

25) 
$$a_1 = -2$$
 and  $a_5 = -512$ 

26) 
$$a_5 = 3888$$
 and  $a_3 = 108$