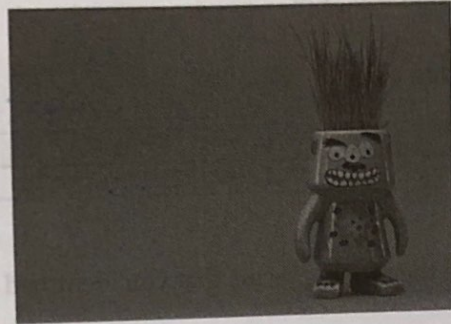


# 1.10 Geometric Meanies

## A Practice Understanding Task

Each of the tables below represents a geometric sequence. Find the missing terms in the sequence, showing your method.



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**Table 1**

x	1	2	3
y	3	6	12

$3 - 1 = 2$

$\frac{12}{3} = 4$  and  $\sqrt[2]{4} = 2$

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

**Table 2**

x	1	2	3	4
y	7	35	175	875

$4 - 1 = 3$

$\frac{875}{7} = 125$   
 $\sqrt[3]{125} = 5$

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

Yes

**Table 3**

x	1	2	3	4	5
y	6	12	24	48	96

$5 - 1 = 4$

$\frac{96}{6} = 16$

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

No both  $2 + -2$  are possible r values

$\sqrt[4]{16} = 2$   
 even  $\pm 2$



Table 4

$x$	1	2	3	4	5	6
$y$	4	12	36	108	324	972

$6-1=5$

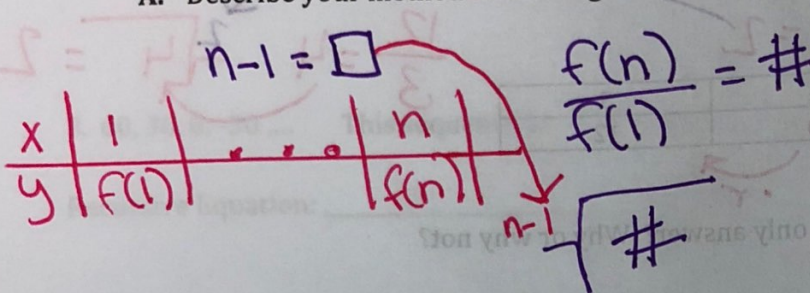
$\frac{972}{4} = 243$

$\sqrt[5]{243}$

3

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

A. Describe your method for finding the geometric means.



B. How can you tell if there will be more than one solution for the geometric means?

HW: Pg 45 5+6  
 Pg 46 8, 10, 11  
 Pg 50-51 7-10