

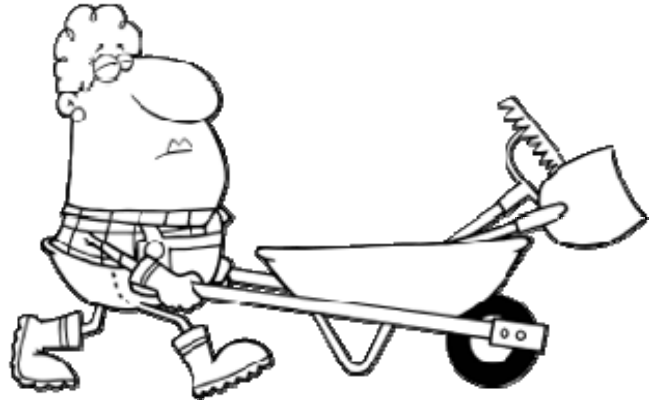
Name _____

Date _____

Variable Expressions and Sequences - Step-by-Step Lesson

Find the first five terms of the sequence defined below, where n represents the position of a term in the sequence. Start with $n = 1$.

$$3(5)^n$$



Explanation:

Step 1) To find 1st term, plug in $n=1$.

$$3(5)^n = 3(5)^1 = 3(5) = 15$$

Step 2) Then to find 2nd term, plug in $n=2$.

$$3(5)^n = 3(5)^2 = 3(25) = 75$$

Step 3) Then to find 3rd term, plug in $n=3$.

$$3(5)^n = 3(5)^3 = 3(125) = 375$$

Step 4) Then to find 4th term, plug in $n=4$.

$$3(5)^n = 3(5)^4 = 3(625) = 1875$$

Step 5) Then to find 5th term, plug in $n=5$.

$$3(5)^n = 3(5)^5 = 3(3125) = 9375$$

The first five terms of the sequence are 15, 75, 375, 1875, 9375.

