

Exponential Functions and Growth: Apply and Create



Name: _____ Date: _____

Use what you learned to explain, construct or apply an idea.

Invented growth model

Invented practice data or scenario; not a report of a real study.
An illustrative model starts at 3 units and doubles each step: $y = 3 \times 2^x$. This is a mathematical practice model, not a real population prediction.

Step x	Units y
0	3
1	6
2	12
3	24

1. For $y = 16 \times (1/2)^x$, find y when $x = 3$.

2. How does this doubling table differ from a linear table?
