DO NOW

ALGEBRA 1 · 5 MINUTES · START RIGHT AWAY

Lesson 6-4c # Exponential Decay

Name _____ Date _____ Per _____

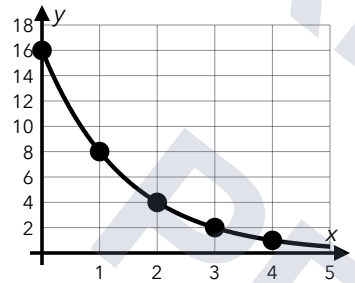
1 FLUENCY

For $y = 800(0.85)^x$, name the initial value, the decay factor, and the decay rate.

initial value: ☐ factor: ☐ rate: ☐

2 VISUAL MODEL

The graph shows $y = a \cdot b^x$.



$a =$ ☐

$b =$ ☐

decay rate: ☐

3 APPLICATION

A car is bought for $24,000. Its value drops 12% each year. What is it worth after 3 years? Round to the nearest cent.

model: _____ $ ☐

WORK

4 REASONING

Always, sometimes, or never? *If $a > 0$ and $b > 1$, then $y = a \cdot b^x$ shows exponential decay.*

always **sometimes** **never**

_____

_____

*We don't divide our effort, we **multiply** it!*

✎ Show your work ✓ Check your work ★ Try your best

Preview - the full worksheet and its answer key are at primeworksheet.com