

Quiz & Worksheet - Exponential Growth vs. Exponential Decay

1. Every year a laptop is worth $\frac{1}{3}$ of what it was worth for each year previous. If you have a \$600 laptop, how much is it worth after 15 years?

- ☐ \$0.91
- ☐ \$400
- ☐ \$2.06
- ☐ \$0.00004
- ☐ \$1.37

2. Which of the following equations represents an exponential decay?

- ☐ $y = x^2 + 1$
- ☐ $y = 3(2)^x$
- ☐ $y = 4^x$
- ☐ $y = (3/4)2^x$
- ☐ $y = 2(3/4)^x$

3. Which of these equations correctly represents the following scenario: In her prime, 40 million people knew who Britney Spears was, but that number has been decreasing by 10% each year. So, since 90% of people still recognize her each year, how many people still know who Britney is each year?

- ☐ $y = 0.1x + 40,000,000$
- ☐ $y = 0.01(40,000,000)^x$
- ☐ $y = 0.9(40,000,000)^x$
- ☐ $y = 40,000,000(0.01)^x$
- ☐ $y = 40,000,000(0.9)^x$

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Quiz 20 Exponential Growth And Decay

Minjie Lin



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