



Sample Test Item Preview

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General Information

Related Benchmark: [MAFS.912.F-LE.1.2](#)

Reporting Category: Functions: Linear, Quadratic, & Exponential Models

Type: EE: Equation Editor

Difficulty: N/A

Question:

A study estimates that the cost of tuition at a university will increase by 2.8% each year. The cost of tuition at the university in 2015 was \$33,741.

The function, $B(x)$, models the estimated tuition cost, where x is the number of years since 2015.

Click on the blank to enter an expression that completes the function $B(x)$.

Possible Answer:

$$B(x) = 33741(1.028)^x$$

Other correct responses:

$$B(x) = 33741(1 + 0.028)^x$$

$$B(x) = 33741(1 + .028)^x$$

Aligned Standards

Code	Description
MAFS.912.F-LE.1.2:	Construct linear and exponential functions, including arithmetic and geometric sequences, given a graph, a description of a relationship, or two input-output pairs (include reading these from a table). ★