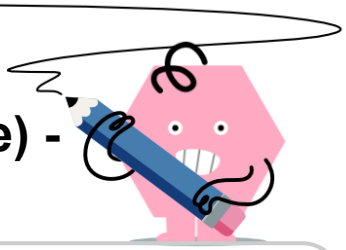
Name

Exponential Function Growth (Discrete) - Equation to Scenario



1 Which scenario describes this equation?

$$1,133 = 900 \cdot (1 + 0.08)^{(3)}$$

A. A savings account starts with $800. Each subsequent year it earns 9% in interest. After 3

B. A savings account starts with $900. Each subsequent year it earns 8% in interest. After 3

2 Which scenario describes this equation?

$$1,179 = 900 \cdot (1 + 0.07)^{(4)}$$

A. A credit card starts with $900 of debt. Each subsequent quarter it grows by 4% in interest.

B. A credit card starts with $900 of debt. Each subsequent quarter it grows by 7% in interest.

3 Which scenario describes this equation?

$$280 = 200 \cdot (1 + 0.07)^{(5)}$$

A. An insect population starts at 200. Each subsequent yearly breeding season it grows by

B. An insect population starts at 200. Each subsequent yearly breeding season it grows by

4 Which scenario describes this equation?

$$1,470 = 800 \cdot (1 + 0.07)^{(9)}$$

A. A savings account starts with $900. Each subsequent month it earns 7% in interest. After 8

B. A savings account starts with $800. Each subsequent month it earns 7% in interest. After 9

5 Which scenario describes this equation?

$$342 = 200 \cdot (1 + 0.08)^{(7)}$$

A. A rabbit population starts at 800. Each subsequent yearly breeding season it grows by

B. A rabbit population starts at 200. Each subsequent yearly breeding season it grows by

6 Which scenario describes this equation?

$$1,033 = 900 \cdot (1 + 0.02)^{(7)}$$

A. A savings account starts with $900. Each subsequent year it earns 7% in interest. After 2

B. A savings account starts with $900. Each subsequent year it earns 2% in interest. After 7

7 Which scenario describes this equation?

$$590 = 400 \cdot (1 + 0.05)^{(8)}$$

A. An insect population starts at 400. Each subsequent yearly breeding season it grows by

B. An insect population starts at 800. Each subsequent yearly breeding season it grows by

8 Which scenario describes this equation?

$$787 = 700 \cdot (1 + 0.04)^{(3)}$$

A. A savings account starts with $700. Each subsequent year it earns 4% in interest. After 3

B. A savings account starts with $300. Each subsequent year it earns 4% in interest. After 7