Fresh Math

Exponential Growth and Decay – Easy

1. A radioactive sample has 100g initially. After 1 half-life period, how much remains?

2. Identify as growth or decay: Bacteria triple every hour

3. A bacteria population of 500 doubles every month. What is the population after 3 months?

4. Identify as growth or decay: Medicine concentration halves every 4 hours

5. A radioactive sample has 100g initially. After 2 half-life periods, how much remains?

6. A radioactive sample has 800g initially. After 3 half-life periods, how much remains?

7. Identify as growth or decay: Medicine concentration halves every 4 hours

8. A bacteria population of 1000 doubles every month. What is the population after 1 month?

Exponential Growth and Decay - Easy - Answer Key

1. A radioactive sample has 100g initially. After 1 half-life period, how much remains?

2. Identify as growth or decay: Bacteria triple every hour

3. A bacteria population of 500 doubles every month. What is the population after 3 months?

4. Identify as growth or decay: Medicine concentration halves every 4 hours

5. A radioactive sample has 100g initially. After 2 half-life periods, how much remains?

6. A radioactive sample has 800g initially. After 3 half-life periods, how much remains?

7. Identify as growth or decay: Medicine concentration halves every 4 hours

8. A bacteria population of 1000 doubles every month. What is the population after 1 month?

exponential decay

exponential decay

exponential growth