

Exponential Equations: Plug and Chug **NOT**

Read about each situation. Decide whether each question requires you to **substitute** or **solve the given equation**. In every case, show the steps that lead to your answer.

1. Paper

A piece of paper is subdivided into strips, as you can see from the picture below. The strips are 10 cm long. If you fold the paper again, it would be subdivided into strips, and so forth. The question is: **How long would it be, in terms of the width of paper after n folds?**

Plug and Chug

a. **Substitute the thickness of the paper after 0 folds.**

$100 = 100 \cdot 2^0$

b. **Substituting and solving an equation to determine what thickness x cm would require the stack to reach 10 feet tall (1000 cm) after 10 folds is necessary to find x .**

$1000 = 100 \cdot 2^{10}$

$10 = 2^{10} \cdot x$

$x = \frac{10}{2^{10}}$

2. Game System

There is one game system that costs less than \$1000. Over the next couple of years, however, the price will go up because of inflation. If you buy the system after n years, the price will be:

$1000 + 200n$

a. **How long would it take before the price of the game system hit \$1000?**

$1000 = 1000 + 200n$

$0 = 200n$

$n = \frac{0}{200}$

$n = 0$

Substituting for n :

$1000 = 1000 + 200(0)$

$1000 = 1000$

b. **What would the cost of the game system after 2 years?**

$1000 = 1000 + 200(2)$

3. Investment

Five thousand dollars was invested in a bank account that earns 4% interest. The question is: **How long would it take for the investment to reach a value of \$10,000?**

Plug and Chug

a. **How much was invested initially?**

$5000 = 5000$

b. **How much would be in the account after 2 years and 4 interest?**

$5000 = 5000 + 200(2)$

c. **How long would it take for the investment to reach a value of \$10,000?**

4. Population

Scientists used to believe a fish, which they called the **blue fish**, the population increased rapidly at first. The equation to describe the population of fish, t is:

$1000 = 1000 + 200(2)^t$

Plug and Chug

a. **How many fish did the scientists start with?**

$1000 = 1000$

b. **How long did it take for the population to reach 1000 fish?**

$1000 = 1000 + 200(2)^0$

$0 = 2^0$

c. **How long will the population after 10**

Exponential Equations Plug And Solve Key

Ying-Ying Zheng



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a 1 only b 2 only c both 1 and 2 d neither 1 nor 2 answer d neither will be a buffer solution because buffers are something

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