1. You are observing bacteria. You have 270 to start with and they half every day. Write an equation that would calculate how many bacteria you will have after $x$ weeks.
2. Your plant is 2 inches tall right now. It grows 7 inches per week. Write an equation that would correctly calculate how long it will be in $x$ weeks.
3. Write an expression that would show a flower population starting with 1 flower, doubling 3 times? (You do not need to solve)
4. A certain worm grows 1.5 inches per month. If it is four inches long now, write an equation to show how long it will be after $x$ months.
a) How long will it be after 4 months?
5. You invest 5 dollars in a company that promises to quadruple your money every year. How much money will you have after 7 years?
6. You are observing bacteria. You have 270 to start with and they half every day. Write an equation that would calculate how many bacteria you will have after $x$ weeks.
7. Your plant is 2 inches tall right now. It grows 7 inches per week. Write an equation that would correctly calculate how long it will be in $x$ weeks.
8. Write an expression that would show a flower population starting with 1 flower, doubling 3 times? (You do not need to solve)
9. A certain worm grows 1.5 inches per month. If it is four inches long now, write an equation to show how long it will be after $x$ months.
b)How long will it be after 4 months?
10. You invest 5 dollars in a company that promises to quadruple your money every year. How much money will you have after 7 years?
11. You raise silkworms. You have 6 to start with and they triple every month. Write an equation that would calculate how many silkworms you will have after $x$ months.
a) How many will you have after 6 months?
12. Write an expression that would show a rabbit population starting with 8 rabbits, doubling three times? (You do not need to solve)
13. Your hair is 30 cm long right now. It grows 1 cm per week. Write an equation to show how long it will be after x weeks.
14. A certain plant quadruples its height every month. If it is 3 inches tall when planted, how tall is it after 4 months?

| $y=1.5 x+4$ | $y=6 \cdot 3^{x}$ | $y=270 \cdot \frac{1^{x}}{x}$ | 10 |
| :--- | :--- | :--- | :--- |
| $y=2+7 x$ | $y=8 \cdot 2^{3}$ | $y=30+x$ | $y=1(3)^{3}$ |
| 768 | 4374 | 81920 |  |

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