

Answer on Question #58699 – Math – Algebra

Question

Brgy. Project 4 has a population of 23,000 at year 2012, with a population growth rate of 8 percent per year, at 2017, what population will it be?

Solution

$$A_n = a_0 \cdot \left(1 + \frac{p}{100}\right)^n$$

$$A_0 = 23000; p = 8;$$

$n = 0$ corresponds to the year 2012, $n = 5$ corresponds to the year 2017.

$$A_5 = 23000 \cdot \left(1 + \frac{8}{100}\right)^5;$$

$$A_5 = 33787.$$

Answer: 33787.