

QUESTION

For each of the following:



or

| Year | 2010 | 2011 | 2012 |
|--------------------------|------|------|------|
| Population (in millions) | 13.2 | 13.4 | 13.6 |

Write a linear equation that models the data. Then use the equation to predict the population in 2015.

ANSWER

Let x represent the year and y represent the population (in millions).

For the first diagram, the population is increasing at a constant rate of 0.2 million per year. The equation is $y = 0.2x + 13.2$. The predicted population in 2015 is 13.8 million.

For the second diagram, the population is increasing at a constant rate of 0.2 million per year. The equation is $y = 0.2x + 13.2$. The predicted population in 2015 is 13.8 million.

For the table, the population is increasing at a constant rate of 0.2 million per year. The equation is $y = 0.2x + 13.2$. The predicted population in 2015 is 13.8 million.

For the table, the population is increasing at a constant rate of 0.2 million per year. The equation is $y = 0.2x + 13.2$. The predicted population in 2015 is 13.8 million.

For the table, the population is increasing at a constant rate of 0.2 million per year. The equation is $y = 0.2x + 13.2$. The predicted population in 2015 is 13.8 million.

For the table, the population is increasing at a constant rate of 0.2 million per year. The equation is $y = 0.2x + 13.2$. The predicted population in 2015 is 13.8 million.