

more Math practice 7.1

Population Calculations

Answer the following questions without a calculator. Show your work.

1. 1,260 deer are living on an island that is 840 square kilometers in size. What is the population density of the deer per square kilometer?

1.5 deer/km²

2. A city with 52,000 people has 260 births. What is the birth rate, both as a percentage and per thousand (CBR)?

0.5%, CBR=5

3. Another city experiences 12 deaths for each thousand people. What is the death rate, both as a percentage and per thousand (CDR)?

1.2%, CDR=12

4. A village of 25,000 people has 750 births and 525 deaths. What is the growth rate for this village?

0.9%

5. How many years will it take for the population of this village to increase from 25,000 to 50,000?

78 years

6. If a country were doubling its population every 35 years, what would its growth rate be?

2%

7. There are 1.3 billion people living in China. China is the third largest country in the world, with an approximate land area of 10 million square kilometers. What is the population density of China?

130 people/km²

8. If there are 520 million urban residents living in China, what percent of the total Chinese population is living in a city?

40%

9. If 15.6 million babies were born in China last year, calculate the birth rate both as a percentage and per 1000 (CBR)?

1.2%, CBR=12

10. If 9.1 million people died in China last year, calculate the death rate both as a percentage and per 1000 (CDR)?

0.7%, CDR=7

11. Many people living in urban China use bicycles rather than automobiles for transportation. If three people per 1000 own a car, how many people in China own cars?

3.9 million

12. Canada's current population is 35 million; there were 280,000 deaths in Canada last year. What was the crude death rate?

CDR=8

13. In a country totaling 300 million there were 125,500 recorded deaths and 535,500 births. The country experienced a net migration of +10,000. Calculate the growth rate.

0.14%

14. How many years will it take for the population of the country in question 13 to double?

500 years

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