

Population Math Worksheet – Answer Key

1. One thousand two hundred and seventy deer are living on an island that is eight hundred and thirty square kilometers in size. What is the population density of the deer per square kilometer?
 $1270/830 = 1.53$ deer per km^2
2. A city with 53,340 people has 876 births. What is the birth rate (as a percentage and per thousand)?
 $876/53340 = 16$ per thousand or 1.6%
3. Another city experiences 12 deaths for each thousand people. What is the death rate (as a percentage and per thousand)?
1.2% or 12 per 1000
4. A village of 23,473 people has 2,342 births and 473 deaths. What is the growth rate for this village?
 $\text{CBR} = 2342/23473 \times 1000 = 99.77$ $\text{CDR} = 473/23473 \times 1000 = 20.15$ $99 - 20 = 77$ per thousand
5. A small country of 744,785 people has 44,678 immigrants and 12,567 emigrants. They also experience 15,898 deaths and 35,665 births. What is the growth rate of this small country?
 $80,343 - 28,465 = 51887/744785 = .0697$ 6.97% or 69.7 per 1000
6. How many years will it take for this country to double its population? $70/7 = 10$ years
7. If a country were doubling its population every 35 years, what would its growth rate be? 2% ($70/35 = 2$)
8. At the end of 2002, there were 1,284.53 million people living in China. China is the third largest country in the world with an area of 9.6 million square kilometers. What is the population density of China?
 $1284.53/9.6 = 133.81$ million people per square kilometer
9. In 2002, 16.47 million babies were born in China. What was the birth rate (as a percentage and per 1000)?
 $16.47/1284.53 = 1.28\%$ or 12.8 per thousand
10. In 2002, 8.21 million people died in China. What was the death rate (as a percentage and per 1000)?
 $8.21/1284.53 = 0.64\%$ or 6.4 per 1000
11. What was the total overall growth rate of China's population in 2002? $12.8 - 6.4 = 6.4$ per 1000 or .64%
12. Using the rate from the previous question, how many years will it take for China's population to double?
 $70/0.64 = 109.38$ years
13. In 2000, there were 30,750,087 people living in Canada, which has a total area of 9,984,670 km^2 . What was the population density of Canada?
 $30750087/9984670 = 3.08$ people per km^2
14. In reality, there are a lot of fresh water lakes in Canada, about 891,163 km^2 of lakes. What was the population density of terrestrial Canada in 2000?
 $30750087/(9984670 - 891163) = 3.38$ people per km^2
15. In 1999 with a beginning population of 30,491,000 people, there were 335,500 births in Canada. What was the birth rate, expressed as per 1000?
 $335500/30491000 \times 1000 = 11$ births per 1000
16. In Canada during the same year there were 225,500 deaths, 205,711 immigrants and 41,142 emigrants. What was the growth rate for Canada?
 $[(335500 + 205711) - (225500 + 41142)] / 30491000 = 0.9\%$ or 9 per 1000
17. How many years will it take for Canada's population to double? $70/0.9 = 77.78$ years
18. The population density of California is about 82 people per km^2 . How much more densely populated is California than Canada (total area)?
 $82 - 3.08 = 78.92$ more people per km^2 in California

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Lei Huang

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