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?
   CBR = 2342/23473*1000 = 99.77   CDR = 473/23473*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 x 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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Marcia Stanhope,Jeanette Lancaster

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Population-Based Public Health Clinical Manual, Fourth Edition: Using EBP to Transform Policy in Nursing and Healthcare Patricia M. Schoon,Carolyn Marie Porta,2023-06-29 This 4th edition is an invaluable resource for PHN educators students and practitioners Authoritative and practical this volume reflects the authors solid understanding of public health nursing practice today The reality based insights and much needed guidance about population health and public health nursing place this book in the forefront of educational resources for public health and community health nursing educators Marla E Salmon ScD RN FAAN Professor Nursing and Global Health Affiliate Professor Governance and Public Policy University of Washington Population Based Public Health Clinical Manual The Henry Street Model for Nurses has proven to be one of the most important public health texts for students and practitioners alike Focused on developing evidence based public health nursing practice in diverse settings and built on the framework of the Henry Street Consortium s 13 competencies for population based entry level public health nursing this new full color fourth edition is fully revised and updated to support readers exploration of the field of public health nursing and the unique responsibilities and challenges that come with being a public health nurse TABLE OF CONTENTS Part I Foundational Concepts for Public Health Nursing Practice Chapter 1 Introduction to Public Health Nursing Practice Chapter 2 Evidence Based Public Health Nursing Practice Part II Entry Level Population Based Public Health Nursing Competencies Chapter 3 COMPETENCY 1 Applies the Public Health Nursing Process to Individuals Families Communities and Systems Chapter 4 COMPETENCY 2 Utilizes Basic Epidemiological Principles in Public Health Nursing Practice Chapter 5 COMPETENCY 3 Utilizes the Principles and Science of Environmental Health to Promote Safe and Sustainable Environments for Individuals Families Communities and Systems Chapter 6 COMPETENCY 4 Practices Public Health Nursing Within the Auspices of the Nurse Practice Act Chapter 7 COMPETENCY 5 Works Within the Responsibility and Authority of the Governmental Public Health System Chapter 8 COMPETENCY 6 Utilizes Collaboration to Achieve Public Health Goals Chapter 9 COMPETENCY 7 Effectively Communicates With Individuals Families Communities and Systems Chapter 10 COMPETENCY 8 Establishes and Maintains Caring Relationships With Individuals Families Communities and Systems Chapter 11 COMPETENCY 9 Incorporates Mental Physical Emotional Social Spiritual and Environmental Aspects of Health Into Assessment Planning Implementation and Evaluation Chapter 12 COMPETENCY 10 Demonstrates Nonjudgmental and Unconditional Acceptance of People Different From Self Chapter 13 COMPETENCY 11 Shows Evidence of Commitment to Social Justice the Greater Good Reducing Racial and Health Disparities and Increasing Health Equity Chapter 14 COMPETENCY 12 Demonstrates Leadership in Public Health Nursing Practices With Individuals and Families Communities and Systems Chapter 15 COMPETENCY 13 Promotes Assesses and Coordinates Population Health at the Individual Family Community and Systems Levels of Practice to Create Healthier Individuals Families Populations and Communities Chapter 16 Putting It All Together What It Means to Be a Public Health

Nurse Part III Appendices Appendix A Entry Level Population Based Public Health Nursing PHN Competencies for the New Graduate or Novice Public Health Nurse Appendix B Omaha System Appendix C Chapter 15 Population Health Exemplar Appendix D Spotlight Population Health Appendix E Spotlight Population Health Outreach ABOUT THE AUTHORS Patricia M Schoon DNP MPH RN PHN is a tenured Associate Professor at Metropolitan State University in St Paul Minnesota She is a founding member of the Henry Street Consortium and has taught nursing and public health for almost 50 years Carolyn M Porta PhD MPH RN PHN SANE A FAAN FNAP is an Associate Vice President for Clinical Affairs at the University of Minnesota and a tenured Professor in the School of Nursing She holds adjunct faculty appointments in the School of Public Health at the University of Minnesota the Kaohsiung Medical University School of Nursing and the Manipal Academy of Higher Education School of Nursing **Model-Based Reasoning in Science and Technology** Lorenzo Magnani,Walter Carnielli,Claudio Pizzi,2010-08-30 Systematically presented to enhance the feasibility of fuzzy models this book introduces the novel concept of a fuzzy network whose nodes are rule bases and their interconnections are interactions between rule bases in the form of outputs fed as inputs **Spectrum Vocabulary, Grade 6** Spectrum,2014-08-15 6th grade vocabulary workbook for kids ages 11 Support your child s educational journey with Spectrum s Grade 6 Vocabulary Workbook that teaches all about spelling and vocabulary skills to sixth graders Sixth Grade Vocabulary workbooks are a great way for children to learn essential language arts skills such as analogies dictionary skills reading comprehension grade 6 context clues and more through a variety of vocabulary builder activities that are both fun AND educational Why You ll Love This Vocabulary Workbook Engaging and educational activities Using context clues Completing analogies and Looking up definitions in the dictionary are a few of the fun activities that incorporate vocabulary into your child s homeschool curriculum or classroom curriculum to help inspire learning Tracking progress along the way Test taking practice tests as well as answer keys are included in the vocabulary workbook to track student progress before moving on to new and exciting activities Practically sized for every activity The 160 page 6th grade workbook is sized at about 8 1 4 x 10 3 4 giving your child plenty of space to complete each exercise About Spectrum For more than 20 years Spectrum has provided solutions for parents who want to help their children get ahead and for teachers who want their students to meet and exceed set learning goals providing workbooks that are a great resource for both homeschooling and classroom curriculum The Spectrum Grade 6 Vocabulary Workbook Contains Vocabulary skills practice activities Test taking tips and vocabulary and reading comprehension practice tests Vocabulary and test taking practice answer keys *Vocabulary, Grade 6* Spectrum,2012-09-01 Spectrum Vocabulary makes word analysis and vocabulary building easier than ever The lessons perfect for students in grade 6 strengthen phonics skills by focusing on concept and sensory words context clues imported words and more Each book aides wi *Computational Systems Bioinformatics* Peter Markstein,Ying Xu,Life Sciences Society,2006 This volume contains about 40 papers covering many of the latest developments in the fast growing field of bioinformatics The contributions span a

wide range of topics including computational genomics and genetics protein function and computational proteomics the transcriptome structural bioinformatics microarray data analysis motif identification biological pathways and systems and biomedical applications There are also abstracts from the keynote addresses and invited talks The papers cover not only theoretical aspects of bioinformatics but also delve into the application of new methods with input from computation engineering and biology disciplines This multidisciplinary approach to bioinformatics gives these proceedings a unique viewpoint of the field **The Rancher and the Baby** Marie Ferrarella,2016-12-01 Enemies become lovers when rivals become guardians of an abandoned baby in this heartwarming romance from a USA Today bestselling author Cassidy McCullough can t remember a time when rancher Will Laredo wasn t a huge albeit handsome pain in her backside In this small Texan town their bickering is almost legendary When they rescue a baby during a flash flood however Will and Cassidy suddenly find themselves temporary guardians of a child together Will has a hard time holstering his temper around Cassidy Now they re both responsible for a lost baby and darned if they can t stop arguing The only way to make it through is to declare a cease fire And Lord help them both if that happens because then Will might just discover he s falling for his enemy Bioengineering Great Britain: Parliament: House of Commons: Science and Technology Committee,2010-03-25 This report finds that the UK has an excellent research base but is still failing to maximise its potential by translating research into wealth and health The road to economic recovery will depend in part on exploitation of the UK s research base which in turn requires efficient translation to generate returns on investments Some areas of bioengineering such as stem cells have clearly benefited from strong Government leadership and support backed up by generous levels of funding from both the public and private sectors Others such as genetically modified GM crops are less well supported and funded This is curious when GM crops are considered by the Government to be safe and offer potential benefits GM crops are certainly the poor cousin in the bioengineering family and we strongly urge the Government to signal its support for GM crops as well as improving the regulatory situation in Europe Regulation of bioengineering is complex and researchers have found that regulations inhibit research and translation either because of regulatory complexity stem cells or a flawed operation of the regulatory process GM crops There are good indications that the UK is learning from past experiences in bioengineering when handling new emerging technologies such as synthetic biology The Government and Research Councils have recognised the value of synthetic biology early and are providing funding The Committee is also concerned that while research is well funded there is not enough forethought about synthetic biology translation for example developing DNA synthesis capability which would provide the UK with an excellent opportunity to get ahead internationally If this is not addressed synthetic biology runs the risk of becoming yet another story of the UK failing to capitalise on a strong research base and falling behind internationally *Computational Systems Bioinformatics - Proceedings Of The Conference Csb 2006* Peter Markstein,Ying Xu,2006-07-28 This volume contains about 40 papers covering many of the latest developments in the

fast growing field of bioinformatics The contributions span a wide range of topics including computational genomics and genetics protein function and computational proteomics the transcriptome structural bioinformatics microarray data analysis motif identification biological pathways and systems and biomedical applications There are also abstracts from the keynote addresses and invited talks The papers cover not only theoretical aspects of bioinformatics but also delve into the application of new methods with input from computation engineering and biology disciplines This multidisciplinary approach to bioinformatics gives these proceedings a unique viewpoint of the field a **Excerpta Indonesica** ,1994 **Groupware: Design, Implementation, and Use** Hugo Fuks,Stephan Lukosch,Ana Carolina Salgado,2005-10-03 This book constitutes the refereed proceedings of the 11th International Workshop on Groupware CRIWG 2005 held in Porto de Galinhas Brazil in September 2005 The 16 revised full papers and 13 revised short papers presented together with a keynote paper were carefully reviewed and selected from 67 submissions The papers are organized in topical sections on groupware development collaborative applications workflow management knowledge management computer supported collaborative learning group decision support systems mobile collaborative work and work modeling in CSCW

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