

|        |  |   |
|--------|--|---|
| 10.2.1 | <p>6!</p> <p><math>= 6 \times 5 \times 4 \times 3 \times 2 \times 1</math></p> <p><math>= 720</math></p>   | <p>✓ 6!</p> <p>✓ answer</p> <p>(2)</p>  |
| 10.2.2 | <p>number of ways Xoliswa sits next to Anees/<br/><i>getal maniere waarop Xoliswa langs Anees sit</i></p> <p><math>= 5! \times 2</math></p> <p><math>= 240</math></p> <p><b>OR/OF</b></p> <p>Regard Xoliswa and Anees as a single entity/<i>Beskou Xoliswa en Anees as een</i></p> <p>Number of ways in which 5 passengers can be arranged <math>= 5!</math><br/><i>Getal maniere waarop 5 passasiers gerangskik kan word</i> <math>= 5!</math></p> <p>So <math>5!</math> different arrangements for KA and <math>5!</math> different arrangements for AX<br/><i>So 5! verskillende rangskikkings vir KA en 5! verskillende rangskikkings vir AX</i></p> <p>number of ways Xoliswa sits next to Anees<br/><i>getal maniere waarop Xoliswa langs Anees sit</i></p> <p><math>= 5! \times 2</math></p> <p><math>= 240</math></p>                          | <p>✓ <math>5! \times 2</math></p> <p>✓ answer</p> <p>(2)</p> <p>✓ <math>5! + 5!</math></p> <p>✓ answer</p> <p>(2)</p> |
| 10.2.3 | <p>number of ways Mary is at an end of the row on the left <math>= 1 \times 5!</math></p> <p>number of ways Mary is at an end of the row on the right <math>= 5! \times 1</math></p> <p>total number of arrangements <math>= 6!</math></p> <p><math display="block">P(\text{Mary is at an end of the row}) = \frac{5! \times 1 + 1 \times 5!}{6!}</math></p> <p><math display="block">= \frac{1}{3}</math></p> <p><i>getal maniere waarop Mary aan die einde van die ry links is</i> <math>= 1 \times 5!</math></p> <p><i>getal maniere waarop Mary aan die einde van die ry regs is</i> <math>= 5! \times 1</math></p> <p><i>totale getal rangskikkings</i> <math>= 6!</math></p> <p><math display="block">P(\text{Mary is aan einde van die ry}) = \frac{5! \times 1 + 1 \times 5!}{6!}</math></p> <p><math display="block">= \frac{1}{3}</math></p> | <p>✓ both LHS and RHS ways</p> <p>✓ 6 !</p> <p>✓ setting up probability</p> <p>✓ answer</p> <p>(4)</p> <p>[15]</p>    |
|        | <b>TOTAL/TOTAAL:</b>   | <b>150</b>  |

# National Grade 12 Mathematics Memorandum

**Daniela Niemeyer**



## **National Grade 12 Mathematics Memorandum:**

Third Symposium Proceedings. New Ways of Teaching and Learning Janina Morska, Alan Rogerson, This volume contains the papers presented at the Third International Symposium on New Ways of Teaching Learning held from August 6 to 10 2004 at the Aemilia Hotel Bologna Italy The Conference was organized by The Mathematics Education for the Future Project an international educational project founded in 1986 and dedicated to innovation in mathematics statistics science and computer education world wide

**The State of Science, Math, Engineering, and Technology (SMET) Education in America, Parts I-IV, Including the Results of the Third International Mathematics and Science Study (TIMSS)** United States. Congress. House. Committee on Science, 1998      **Congressional Record** Congress, 1990      **Congressional Record** United States. Congress,      **Improving Math and Science Teaching** Kay McKinney, 1993 A 1992 conference on mathematics and science teaching focused on two specific topics enhanced professional development for educators and better instructional materials for the classroom Teachers members of Congress governors teacher educators professors researchers and policymakers shared what they believed was needed to be done to improve mathematics and science education in the United States This booklet reports the views of the participants and the general consensus of the conference regarding changes needed in the education system The concepts of systemic reform in education and the setting of national standards as exemplified by the National Council of Teachers of Mathematics are discussed in section 1 The second section discusses the necessity of providing all children with an opportunity to learn mathematics and science The third section reports the participants views emphasizing courses that teach mathematics and science for understanding The fourth section discusses the necessity to prepare teachers of math and science to higher standards of skill and knowledge Extensive professional development to help practicing teachers enhance their skills is suggested The fifth section examines the need for the development of better instructional materials for the mathematics and science classroom Finally 20 recommendations in the following 4 themes are reported 1 standards 2 improving mathematics and science teaching 3 instructional materials and 4 systemic change A list of presenters and demonstrators and a statement of principles on school reform in mathematics and science are provided MDH      Journal of the Senate of the United States of America United States. Congress. Senate,      Memoranda, Bulletins, Circulars: From January, 1952 to June, 1957 Philippines. Bureau of Private Schools, 1957

**California State Publications**, 2000      Resources in Education, 1997      Research in Education, 1970

Paperbound Books in Print, 1992      **Guide to U.S. Government Publications** Donna Batton, 2007-08 This comprehensive yet concise annual annotated reference source catalogs the important series periodicals and reference tools published by U S government agencies Over the years the index section of the Guide to U S Government Publications has expanded to more than 40 000 entries Agencies and titles are indexed followed by a keyword title index for quick and easy referencing No other single resource provides historical and current information on U S government publications in one

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web wolf moose populations 1980 to today the populations of wolves and moose on isle royale constantly adjust as food availability weather and seasons affect the health and reproduction of the animals over time notice as the wolf population declines the moose population increases and vice versa in the past forty years isle royale has

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web but we get a different sense is if we also consider the highest density of moose ever observed on isle royale 4 4 moose km<sup>2</sup> in 1996 and the subsequent year when the moose population collapsed see section 1 this observation is represented by the point on the lower right portion of the graph

the wolves of isle royale ws answers flashcards quizlet - Apr 11 2023

web 1 how much of a time lag does there appear to be between a moose peak and a wolf peak the time lag between the wolf peak of 1980 and the moose peak of 1995 is about a 15 year time lag 2 during what year was there a large wolf die off hypothesize what might have been the cause of this die off there was a large wolf die off after 1980

exercise 13 isle royale simbio virtual lab flashcards quizlet - Aug 15 2023

web to analyze the relationship of predator prey interactions between moose and wolves what is population growth changes in the size and composition of populations and the factors that cause those changes fill in the blanks the larger a population becomes the it

**moose isle royale national park u s national park service** - Apr 30 2022

web oct 14 2020 the moose population of isle royale has fluctuated over the years since 1980 the population has been as low as 500 animals and as high as 2 400 the fluctuation of population is directly connected to the vegetation and predators of the island

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web what animals populated isle royale after the moose how did they reach the island and what effect did this have on the moose population a small pack of wolves found and crossed a rare ice bridge that formed between the mainland and isle royale in the 1940s

**wolves and moose of isle royale online lab docx wolves** - Jul 02 2022

web wolves and moose of isle royale visit to answer the following introductory questions 1 what are the predators and prey involved in this activity wolf and moose wolf and moose 2 what is the purpose of this study for example how long has this



study been happening why did it start what are the goals 3

**solved isle royale lab report the moose arrive what is the** - Jul 14 2023

web provide a biological explanation for why the moose population overshoots its carrying capacity when moose first colonize

isle royale hint consulting the introduction might help at year 50 or later with the moose population at its carrying capacity

what would happen if an extra 200 moose suddenly arrived on isle royale how would this

*isle royale worksheet docx isle royale worksheet this lab* - Feb 09 2023

web isle royale worksheet this lab simulation will take place in the simutext software by simbio use this worksheet to make

sure you can answer questions about the lab that may appear on your lab quiz i e stable moose population for moose approx

200 the capacity did not change because moose are limited by plant growth which did not