Permutations and Combinations Worksheet
Answer Key

As a Matter of Factorial...

1. How many ways are there to order 5 books on a shelf?
   $5! = 120$

2. Simplify $_{10}P_5$.
   $\frac{10!}{5!} = 5040$

3. How many ways can we order 6 computers if we have only space for 3?
   $\frac{6!}{3!} = 120$

4. How many ways can we order 8 swimsuits in 4 lockers?
   $\frac{8!}{4!} = 1680$

5. How many ways can we choose 4 t-shirts from 6 t-shirts with repetitions allowed?
   $6^4 = 1296$

6. How many 10-digit phone numbers are there?
   10^{10}

7. How many playlists can we make with 38 songs if we can repeat 5 songs in each playlist?
   $_{38}P_{33} = 38 \times 37 \times 36 \times 35 \times 34$

8. How many combinations of playlists can we make with 10 songs when there are 5 songs in each and order does not matter?
   $_{10}C_5 = \frac{10!}{5!5!}$

9. A drawer contains 6 white t-shirts and 2 red ones. If 2 shirts are drawn at random, what is the probability of getting 2 white shirts?
   $\frac{_6C_2}{_8C_2} = \frac{15}{28}$

10. There are 10 pink, 15 purple, and 5 green jelly beans in a jar. If two jelly beans are drawn at random (without replacement) what is the probability that both are green?
    $\frac{_5C_2}{_{30}C_2} = \frac{2}{87}$

Lesson 11 1 Permutations And Combinations Answers

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Kendall/Hunt Pre-algebra Teacher Guide , EBOOK: College Algebra with Trigonometry Raymond Barnett,Michael Ziegler,Karl Byleen,David Sobecki,2010-03-16 Barnett Ziegler Byleen and Sobecki s College Algebra with Trigonometry text is designed to be user friendly and to maximize student comprehension by emphasizing computational skills ideas and problem solving as opposed to mathematical theory The large number of pedagogical devices employed in this text will guide a student through the course Integrated throughout the text students and instructors will find Explore Discuss boxes which encourage students to think critically about mathematical concepts In each section the worked examples are followed by matched problems that reinforce the concept being taught In addition the text contains an abundance of exercises and applications that will convince students that math is useful A MathZone site featuring algorithmic exercises videos and other resources accompanies the text *HiSET Exam Prep* Kaplan Test Prep,Caren Van Slyke,2020-04-07 Kaplan s HiSET Exam Prep provides comprehensive review online resources and exam like practice to help you pass the test Our book is designed for self study so you can prep at your own pace on your own schedule The new fourth edition includes an online study plan that will help you track your progress and learn more about the HiSET Essential Review More than 1 000 practice questions in the book and online with answers and explanations In book diagnostic pretest to help you identify your strengths and weaknesses so you can set up a personalized study plan Essential skills you ll need to pass each of the 5 subtests Reasoning through Language Arts Reading Language Arts Writing Mathematics Science and Social Studies A full length practice test for each subject area Expert Guidance Online center with information about getting started and a system for marking chapters complete Expert test taking strategies to help you face the exam with confidence Kaplan s experts make sure our practice questions and study materials are true to the test We invented test prep Kaplan www kaptest com has been helping students for 80 years Our proven strategies have helped legions of students achieve their dreams The HiSET is an alternative to the GED test and the TASC test In some states it is the only acceptable test for earning a high school equivalency diploma In other states it is just 1 test option out of 2 or 3 To find out whether your state will be using the HiSET for high school equivalency tests visit hiset ets org or contact your state s department of education The previous edition of this book was titled HiSET Exam Third Edition **Student Solutions Manual for Precalculus Mathematics** Tech Laurel Technical Services,1995-11 **Oswaal NDA-NA Question Bank | Previous Years Solved Question Papers Chapter-wise & Topic-wise (2014-2023): Mathematics (For 2023-24 Exam)** Oswaal Editorial Board,2023-08-17 Description of the Product 100% Updated with Fully Solved April 2023 1 Paper Extensive Practice with more than 1400 questions 2 Sample Question Papers Concept Clarity with Concept based Revision notes Mind Maps Mnemonics Valuable Exam Insights with Expert Tips to crack NDA NA in first attempt 100% Exam Readiness with Last 5 Years Chapter wise Trend Analysis

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