

Permutations and Combinations Worksheet

Answer Key

As a Matter of Factorial...

- How many ways are there to order 5 books on a shelf?
 $5! = 120$
- Simplify ${}_{10}P_6$.
 $\frac{10!}{4!} = 5040$
- How many ways can we order 6 computers if we have only space for 3?
 $\frac{6!}{3!} = 120$
- How many ways can we order 8 swimsuits in 4 lockers?
 $\frac{8!}{4!} = 1680$
- How many ways can we choose 4 t-shirts from 6 t-shirts with repetitions allowed?
 $6^4 = 1296$
- How many 10-digit phone numbers are there?
 10^{10}
- How many playlists can we make with 38 songs if we can repeat 5 songs in each playlist?
 ${}_{38}P_{33} = 38 \times 37 \times 36 \times 35 \times 34$
- How many combinations of playlists can we make with 10 songs when there are 5 songs in each and order does not matter?
 ${}_{10}C_5 = \frac{10!}{5!5!}$
- 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?
 $\frac{{}_6C_2}{{}_8C_2} = \frac{15}{28}$
- 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?
 $\frac{{}_5C_2}{{}_{30}C_2} = \frac{2}{87}$

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Lesson 11 1 Permutations And Combinations Answers

McGraw-Hill Staff



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Mathematics Methods for the Elementary and Middle School Mary M. Hatfield,1993 *College Algebra* Richard N. Aufmann,Vernon C. Barker,Richard Nation,2001-06-06 The Fourth Edition of College Algebra continues to promote student success by engaging students in mathematics thus helping them see the dynamic link between concepts and applications The authors hallmark approach the Aufmann Interactive Method encourages students to interact with math by presenting an annotated example then guiding students with a Try Exercise and finally presenting a worked out solution for immediate reinforcement of the concept A wealth of new features designed to enhance learning include more in text guidance as well as special web based resources and an unparalleled Instructor s Annotated Edition facilitates teaching New An Instructor s Annotated Edition unlike any other offered for this course features reduced student text pages with special instructor resources in the margins teaching tips extra examples ideas for reinforcing concepts discussion suggestions highlighted vocabulary and symbols challenge problems quizzes suggested assignments and references to transparencies that may be found both in the Instructor s Resource Manual and on the web site New Side by Side Solutions to examples pair an algebraic solution and a graphical representation to accommodate different learning styles New Technology dependent modeling sections introduce the idea of mathematical modeling of data through linear quadratic exponential logarithmic and logistic regression New Integrated web resources include selected Take Note boxes identified by a special web icon which direct students to an interactive example or a downloadable file on the web site These special resources can be used by instructors for presentation purposes or can be assigned to students to help them visualize a concept New Concept Lists now prominently feature all the major topics at the beginning of each section preparing students for the concepts to follow A wide range of applications exercise sets and supplemental exercises many involving real data encourage problem solving skill building group work writing and manipulation of graphing calculators Exploring Concepts with Technology a special end of chapter feature expands on ideas introduced in the text by using technology to investigate extended mathematical applications or topics Projects at the end of each exercise set are designed to encourage students or groups of students to research and write about mathematics and its applications Additional Projects are included in the Instructor s Resource Manual and on the book s web site Topics for Discussion conceptual exercises included at the end of each section can be used for discussion or writing assignments Take Note and Math Matters formerly called Point of Interest margin notes alert students about interesting aspects of math history applications and points that require special attention Mathematics GLENCOE,1995 **School** ,1928 Algebra ,1993 **Report of the Committee of Council on Education in Scotland...[without Appendix]** ,1898 *Meeting the Indiana Challenge* ,2004 **Farmers' Guide** ,1905 *The American Statistician* ,1971

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