

Name _____

Date _____

Principles of Counting

Objective: To find the total possible number of arrangements (ways) an event may occur.

- a) Identify the number of parts (Area Codes, Zip Codes, License Plates, Password, Short Melodies)
- b) Start with the most restricted part and write the number of possible choices.
- c) Write the number of choices for other parts
- d) Multiply all the numbers.

1) How many different PIN numbers codes are possible? $\underline{D} \underline{D} \underline{D} \underline{D} = 10 \times 10 \times 10 \times 10 = 10,000$

2) How many different ZIP codes are possible? $\underline{D} \underline{D} \underline{D} \underline{D} \underline{D} = 10 \times 10 \times 10 \times 10 \times 10 = 100,000$

3) How many different ZIP codes are possible with no zero at the beginning?
 $\underline{D} \underline{D} \underline{D} \underline{D} \underline{D} = 9 \times 10 \times 10 \times 10 \times 10 = 90,000$

4) How many different 7- part license plates are possible with one digit first, 3 letters after followed by another 3 digits?

$$\underline{D} \underline{L} \underline{L} \underline{L} \underline{D} \underline{D} \underline{D} = 10 \times 26 \times 26 \times 26 \times 10 \times 10 \times 10 = 175,760,000$$

5) How many different 7- part license plates are possible if each part can use letter or digit?

$$\underline{D} \underline{L} \underline{L} \underline{L} \underline{D} \underline{D} \underline{D} = 36 \times 36 \times 36 \times 36 \times 36 \times 36 \times 36 = 78,364,164,096$$

6) How many different 6-part password can be written (case sensitive with 10 digits, 52 letters and 8 symbols)

$$70 \times 70 \times 70 \times 70 \times 70 \times 70 = 117,649,000,000$$

7) How many different types of pizza with two toppings can we order, if we have 4 choices of size, two choices of thickness, and 8 choices of toppings. $\underline{S} \underline{Th} \underline{T1} \underline{T2} \quad 4 \times 2 \times 8 \times 7 = 448$

8) How many different types of pizza with three toppings can we order, if we have 4 choices of size, two choices of thickness, and 8 choices of toppings. $\underline{S} \underline{Th} \underline{T1} \underline{T2} \underline{T3} \quad 4 \times 2 \times 8 \times 7 \times 6 = 2,688$

9) How many different 8-note melodies can be made by a 44-key keyboard?
 $44^8 = 14,048,223,625,220$

10) How many different 4- digit even numbers can we write with (0,5,6,3,8,7)?

$$5 \times 6 \times 6 \times 3 = 540$$

Hint: To be 4- digit zero can not be used as the first digit, and to be an even number the last number can be 0,6,8, that give us 3 choices.

$\underline{D} \underline{D} \underline{D} \underline{D}$

A2 Fundamental Counting Principle Answer Key

Peter Sherran



A2 Fundamental Counting Principle Answer Key:

The Diagnostic Process Rudolf Zalter, 2013-08-21 This book addresses the decision making process under uncertainty The process commonly encountered in all fields of human endeavor is called the diagnostic process in this monograph The thrust of this book is to help the struggling student of all ages in all fields to cross the threshold from rote to comprehension thus bridging an intuitive gap left in many a readers mind regarding the significance and clinical implication of the accompanying probability data The text is in essence a verbal and graphic portrait of the basic ideas and symbolic structure of probability and statistical inference with particular stress on the Bayesian version It aims to expound in words simile and diagrams the inherent connections obtained between a given event and its sample space or between a given random sample and a hypothesized population In this sense no formula is left naked to be absorbed on its face value without the support of a graphic cover The final result is a firm grasp of the simple concepts that make the infrastructure not the superstructure of the subject Nonetheless this is not another book on statistics It certainly is not a textbook geared for the classroom it contains no problem to solve other than those structured and graphed examples needed to clarify and illustrate the thrust of the point under consideration The book deals exclusively with the two topics that I tend to believe are the core thesis of statistics namely probability and its counterpoint inference supported by the necessary exposition of sets Thus the book does not include the mandatory and important chapters on analysis of variance regression and correlation SAT Subject Test Math Level 1 Ira K. Wolf, 2020-12-01 Barron s SAT Subject Test Math Level 1 with 5 Practice Tests features in depth review of all topics on the exam and full length practice tests in the book and online This edition includes Comprehensive review of all topics on the test including arithmetic algebra plane geometry solid and coordinate geometry trigonometry functions and their graphs probability and statistics real and imaginary numbers and logic Three full length practice tests that reflect the actual SAT Subject Test Math Level 1 exam in length question types and degree of difficulty Two full length online practice tests with answer explanations and automated scoring The most important test taking strategies students need to know to succeed on this exam *An Introduction to Ramsey Theory* Matthew Katz, Jan Reimann, 2018-10-03 This book takes the reader on a journey through Ramsey theory from graph theory and combinatorics to set theory to logic and metamathematics Written in an informal style with few requisites it develops two basic principles of Ramsey theory many combinatorial properties persist under partitions but to witness this persistence one has to start with very large objects The interplay between those two principles not only produces beautiful theorems but also touches the very foundations of mathematics In the course of this book the reader will learn about both aspects Among the topics explored are Ramsey s theorem for graphs and hypergraphs van der Waerden s theorem on arithmetic progressions infinite ordinals and cardinals fast growing functions logic and provability G del incompleteness and the Paris Harrington theorem Quoting from the book There seems to be a murky abyss lurking at the bottom of mathematics While in many ways we cannot hope to reach solid ground

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the characterization of dynamical measurement Currently increasing attention is paid to these issues due to their scientific technical economic and social impact The book proposes a unified probabilistic approach to them which may allow more rational and effective solutions to be reached Great care was taken to make the text as accessible as possible in several ways Firstly by giving preference to as interdisciplinary a terminology as possible secondly by carefully defining and discussing all key terms This ensures that a wide readership including people from different mathematical backgrounds and different understandings of measurement can all benefit from this work Concerning mathematics all the main results are preceded by intuitive discussions and illustrated by simple examples Moreover precise proofs are always included in order to enable the more demanding readers to make conscious and creative use of these ideas and also to develop new ones The book demonstrates that measurement which is commonly understood to be a merely experimental matter poses theoretical questions which are no less challenging than those arising in other apparently more theoretical disciplines [Lists, Decisions and Graphs](#) ,

MATHEMATICAL COMBINATORICS (INTERNATIONAL BOOK SERIES), Vol. 1, 2020

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there are numerous examples to reinforce the material

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