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1. How many straight lines can be formed by 8 points of which 3 are collinear? Answer $8C_2 - 3C_2 + 1$ (general formula $nC_2 - rC_2 + 1$) 2. How many triangles can be formed by 8 points of which 3 are collinear? Answer $8C_3 - 3C_3$ (general formula $nC_3 - rC_3$) 3. Combinatorics Practice Problem Set Answers Combinatorics 3.1 Permutations Many problems in probability theory require that we count the number of ways that a particular event can occur. For this, we study the topics of permutations and combinations. We consider permutations in this section and combinations in the next section. Combinatorics - dartmouth.edu Solutions to the exercises The solutions are in PDF format: there is one file for each chapter. Only the first eleven chapters are available as yet (work in progress on the remainder), and detailed solutions to projects are not given. What is combinatorics? On numbers and counting; Subsets, partitions, permutations Combinatorics: Solutions, Additions, Corrections Combinatorics is the study of counting. Mathematicians who study combinatorics develop techniques to count outcomes, arrangements, and combinations of objects. These counting strategies can be applied to many different areas in mathematics, like probability, algebra, and geometry. Combinatorics Practice Problems Online | Brilliant Solutions. By Grade Level. Middle School. Prepare your students for success with meticulously researched ELA, math, and science practice for grades 5-8. ... Explore the principles that form the basis of combinatorics. Multiplication and Addition Principles. 61 questions. Not started. Multiplication principles. ... Distribution Problems. Combinatorics |

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 Solution For each of the 3 values in A the function can take on 2 values. Hence, by the multiplication rule the number of functions is $2 \cdot 2 \cdot 2 \cdot 8 \cdot \dots = 3$. We leave it to the reader to draw the eight functions (See Problem 21.) In general the number of functions from a set with cardinality n to a set with cardinality m is mn.
 Section 2.3 counting - Mathematics & Statistics
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