

## Investigation Chapter 1: Tire Story Falls Flat - Camilla Perego

**PART 1.** A legendary story on college campuses concerns two students who miss a chemistry exam because of excessive partying but blame their absence on a flat tire. The professor allows them to take a make-up exam, and sends them to separate rooms to take it. The first question, worth five points, is quite easy. The second question, worth ninety-five points, asks: Which tire was it?

### Step 1: Ask a research question

Do students pick which tire went flat in equal proportions? It has been conjectured that when students are asked this question and forced to give an answer (left front, left rear, right front, or right rear) off the top of their head, they tend to answer "right front" more than would be expected by random chance.

### Step 2: Design a study and collect data

To test this conjecture about the right front tire, a recent class of 28 students was asked if they were in this situation, which tire would they say had gone flat. We obtained the following results:

Left front	Left rear	Right front	Right rear
8	4	12	4

1. What are the observational units?

The observational units are the students

2. What is the variable that is measured/recorded on each observational unit?

Choice of tire

3. Describe the parameter of interest in words. (You can use the symbol  $\pi$  to represent this parameter.)

$\pi$  = the parameter is the long-run probability of choosing the right front tire as an answer

4. State the appropriate null and alternative hypotheses to be tested.

$H_0: \pi = 0.25$

$H_a: \pi > 0.25$

### Step 3: Explore the data

5. What percentage of the students picked the right front tire? Is this more than you would expect if students randomly pick one of the four tires?

12 students out of 28 picked the right front tire (42.8%). It is more than we would expect if students randomly pick one of the four as the probability in that case would be 25%.  $42.8\% > 25\%$

6. Is it possible that we could observe 14 students from this class of 28 students even if all of the students were just selecting randomly among the four tires?

Yes it is possible that 14 students out of 28 would randomly pick the right front tire. However, I would consider it unlikely since it is more than the long-run probability

### Step 4: Draw inferences

Let's use our 3S strategy to help us investigate how much evidence the sample data provide to support our conjecture that there is something special about the right front tire.

**Statistic**

# Chapter 1form G

**Shōshichi Kobayashi, Katsumi Nomizu**



## Chapter 1 form G:

*Differential Geometry* Clifford Henry Taubes, 2011-10-13 Bundles connections metrics and curvature are the lingua franca of modern differential geometry and theoretical physics This book will supply a graduate student in mathematics or theoretical physics with the fundamentals of these objects Many of the tools used in differential topology are introduced and the basic results about differentiable manifolds smooth maps differential forms vector fields Lie groups and Grassmannians are all presented here Other material covered includes the basic theorems about geodesics and Jacobi fields the classification theorem for flat connections the definition of characteristic classes and also an introduction to complex and Kähler geometry Differential Geometry uses many of the classical examples from and applications of the subjects it covers in particular those where closed form expressions are available to bring abstract ideas to life Helpfully proofs are offered for almost all assertions throughout All of the introductory material is presented in full and this is the only such source with the classical examples presented in detail

*Topology, Geometry, and Gauge Fields* Gregory Naber, 1997-04-24 Like any books on a subject as vast as this this book has to have a point of view to guide the selection of topics Naber takes the view that the rekindled interest that mathematics and physics have shown in each other of late should be fostered and that this is best accomplished by allowing them to cohabit The book weaves together rudimentary notions from the classical gauge theory of physics with the topological and geometrical concepts that became the mathematical models of these notions The reader is asked to join the author on some vague notion of what an electromagnetic field might be to be willing to accept a few of the more elementary pronouncements of quantum mechanics and to have a solid background in real analysis and linear algebra and some of the vocabulary of modern algebra In return the book offers an excursion that begins with the definition of a topological space and finds its way eventually to the moduli space of anti self dual SU 2 connections on  $S^4$  with instanton number 1

*Topology, Geometry, and Gauge Fields* Gregory L. Naber, 2013-04-17 Mathematics is playing an ever more important role in the physical and biological sciences provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the classical techniques of applied mathematics This renewal of interest both in research and teaching has led to the establishment of the series Texts in Applied Mathematics TAM The development of new courses is a natural consequence of a high level of excitement on the research frontier as newer techniques such as numerical and symbolic computer systems dynamical systems and chaos mix with and reinforce the traditional methods of applied mathematics Thus the purpose of this textbook series is to meet the current and future needs of these advances and encourage the teaching of new courses TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses and will complement the Applied Mathematical Sciences AMS series which will focus on advanced textbooks and research level monographs

Preface In Egypt geometry was created to measure the land Similar motivations on a somewhat larger scale led Gauss to the intrinsic differential geometry of surfaces in space Newton created

the calculus to study the motion of physical objects apples planets etc and Poincare was similarly impelled toward his deep and far reaching topological view of dynamical systems     *T. B. Basic Mathematics for College Students*

Tussy,Gustafson,2005-04     *A Comprehensive Introduction to Differential Geometry* Michael Spivak,1979     *Federal Register* ,1961-09     **Statutes of the Province of Saskatchewan** Saskatchewan,1924     Elements of the theory of music, adapted to the requirements of the code for pupil-teachers and candidates for certificate-papers of the first year

Elements,1884     **The Code of Civil Procedure of the State of New York** New York (State),1896     **Foundations of Differential Geometry** Shōshichi Kobayashi,Katsumi Nomizu,1963     *Sight-singing for schools, and elements of the theory of music* Sight-singing,1890     **Forms of Judgments and Orders in the High Court of Justice and Court of Appeal** Sir Henry Wilmot Seton,1912     The Nation ,1888     *Selected Chapters of the Revised Statutes of Canada, 1906, Relating to the Criminal Law* Canada,1907     **The Revised Statutes of Ontario, 1897** Ontario,1897     Cases on Iowa Practice in Civil Actions Wayne G. Cook,1926     **Callaghan's Illinois Statutes Annotated** Illinois,1924     **Modeling and Stabilization for Mechanical Systems** Sameer Madhav Jalnapurkar,1999     *Encyclopedia of Forms and Precedents for Pleading and Practice, at Common Law, in Equity, and Under the Various Codes and Practice Acts* William Henry Michael,William Mack,Howard Pervear Nash,Thomas Edward O'Brien,James Cockcroft,1902     **Labour Legislation in Canada for the Calendar Year ...** ,1922

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