

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

**PART I.** 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 Answers

**Arieh Ben-naim**



## Chapter 1form G Answers:

Molecular Theory Of Water And Aqueous Solutions - Part 1: Understanding Water Arieh Ben-naim,2009-07-17 The aim of this book is to explain the unusual properties of both pure liquid water and simple aqueous solutions in terms of the properties of single molecules and interactions among small numbers of water molecules It is mostly the result of the author's own research spanning over 40 years in the field of aqueous solutions An understanding of the properties of liquid water is a prelude to the understanding of the role of water in biological systems and for the evolution of life The book is targeted at anyone who is interested in the outstanding properties of water and its role in biological systems It is addressed to both students and researchers in chemistry physics and biology

**Singularities, Part 1** Peter Orlik,American Mathematical Society,1983 On April 7 10 1980 the American Mathematical Society sponsored a Symposium on the Mathematical Heritage of Henri Poincaré held at Indiana University Bloomington Indiana This title presents the written versions of this Symposium It contains two papers by invited speakers who were not able to attend S S Chern and L Nirenberg

**Several Complex Variables, Part 1** Raymond O'Neil Wells,American Mathematical Society,1977 Contains sections on Singularities of analytic spaces Function theory and real analysis Compact complex manifolds and Survey papers

**Exact Solutions of Relativistic Wave Equations** V.G. Bagrov,D. Gitman,1990-02-28 Et moi si j'avais su comment en revenir One service mathematics blog rendered the journey a point in human race It has put common sense back Jules Verne where it belongs on the topmost shelf next to the dusty canister labelled discarded non The series is divergent therefore we may be sense able to do something with it Eric T Bell O Heaviside Mathematics is a tool for thought A highly necessary tool in a world where both feedback and non linearities abound Similarly all kinds of parts of mathematics serve as tools for other parts and for other sciences Applying a simple rewriting rule to the quote on the right above one finds such statements as One service topology has rendered mathematical physics One service logic has rendered computer science One service category theory has rendered mathematics All arguably true And all statements obtainable this way form part of the raison d'être of this series

*Brotherhood of Locomotive Firemen and Enginemen's Magazine* ,1927

**The Chancery Jurisdiction and Practice** Edward Judson Hill,1873

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*Immigration Procedures Handbook* Austin T. Fragomen, Alfred J. Del Rey, Steven C. Bell, 2007    *Locomotive Firemen's Magazine* ,1913    **The Book of the Prophet Isaiah: Chapters I-XXXIX** John Skinner, 1896    **A New English Dictionary on Historical Principles: part 1. H (1901)** James Augustus Henry Murray, 1901    **The Book of the Prophet Isaiah, Chapters I-XXXIX** ,1896    **The Train Dispatcher** ,1906    Algebra William G. McCallum, Eric Connally, Deborah Hughes-Hallett, 2015-02-13 Algebra Form and Function was designed based on the fundamental goal for a student to foster understanding of algebraic structure that is an understanding of how the arrangements of symbols allows us to predict for example the behavior of a function or the number of solutions to an equation Mastering algebraic structure enables students to read algebraic expressions and equations in real life contexts not just manipulate them and to choose which form or which operation will best suit the context It facilitates being able to translate back and forth between symbolic graphical numerical and verbal representations By balancing practice in manipulation and opportunities to see the big picture Algebra Form and Function offers a way for teachers to help students achieve real mastery of algebra

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