

Davis / Edwards

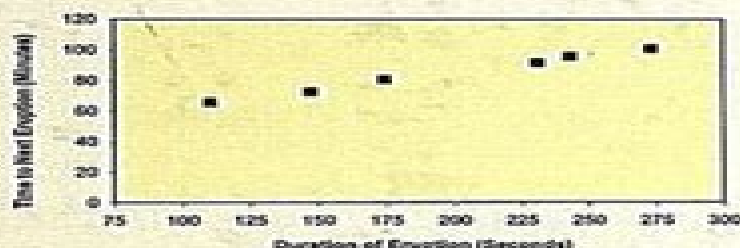
Elementary

MATHEMATICAL MODELING

Functions and Graphs

Second Edition

Visitors to Yellowstone National Park want to see an eruption of the famous geyser, Old Faithful, and many people mistakenly believe that it erupts every hour. Although Old Faithful doesn't erupt on a fixed schedule, there do seem to be patterns in its eruptions. The following plot shows data from selected Old Faithful eruptions in January, 2003.

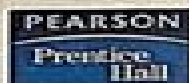


Source: www.geyserstudy.org

We can make several observations about this graph. First, the graph represents a function with the duration of an eruption as input, and the time to the next eruption as output. Second, the function is increasing; as the duration of the eruption increases, so does the time to the next eruption. Finally, the points in this scatter plot lie approximately on a (straight) line.

Since the time required to wait for the next eruption is what visitors want to know, it would be useful to determine a function rule that would enable us to make such a prediction, based on how long the last eruption took. How to do this for Old Faithful is discussed in Chapter 2 of this book. This application, together with many others like it throughout the book, illustrates a central feature of mathematical modeling—finding and applying appropriate mathematical functions to describe and understand real-world situations.

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ISBN 0-13-145035-2



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RJ Alexander



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phenotype is somewhere in between the 2. Section 11-3 Exploring Mendelian Genetics Section 11-3 Exploring Mendelian Genetics. (pages 270-274). Key Concepts. • What is the principle of independent assortment? • What inheritance patterns exist ... Answers For CH 11, 13, 14 Reading Handout Section 11—3 Exploring Mendelian Genetics 9. What was the ratio of Mendel's F2 generation for the two-factor cross? (pages 270-274) 10. Complete the Punnett ... 11-3 Exploring Mendelian Genetics Aug 14, 2014 — 11-3 Exploring Mendelian Genetics. Key Concepts: What is the principle of independent assortment? What inheritance patterns exist aside from ... Answers to All Questions and Problems Aug 14, 2015 — CHAPTER 1. 1.1 In a few sentences, what were Mendel's key ideas about inheritance? ANS: Mendel postulated transmissible factors—genes—to.