

Problems #1 thru #2: A researcher is testing the following hypotheses with $n = 1000$ and $\alpha = 0.01$:

$$H_0: \pi = 0.29$$

$$H_A: \pi \neq 0.29$$

1. What is the level of significance?

- A. 0.001
- ☒ B. 0.01
- C. 0.02
- D. 0.05
- E. 0.1

2. If the test statistic were 1.238, what is the p-value?

- A. 0.1003
- ☒ B. 0.1075
- C. 0.1093
- D. 0.2150
- E. 0.2186

$$.5 - .3925$$



Problems #3 thru #5: The results from a sample of net weights of 6 bottles filled by a machine manufactured by Edne, and a sample of the net weights of 8 bottles filled by a similar machine manufactured by Orno, Inc. are (in grams):

<u>Company</u>	<u>Sample Size</u>	<u>Mean</u>	<u>Standard Deviation</u>
Edne (E)	6	7	1.4
Orno, Inc. (O)	8	10	2.3

Use a 0.01 level of significance to test whether the mean net weight of bottles filled by the Edne machine is different than the mean net weight of bottles filled by the Orno, Inc. machine. Assume normality if needed.

3. What are the correct hypotheses?

- ☒ A. $H_0: \mu_E - \mu_O \neq 0$ $H_A: \mu_E - \mu_O = 0$
- ☒ B. $H_0: \mu_E - \mu_O > 0$ $H_A: \mu_E - \mu_O \leq 0$
- C. $H_0: \mu_E - \mu_O \leq 0$ $H_A: \mu_E - \mu_O > 0$
- D. $H_0: \mu_E - \mu_O \geq 0$ $H_A: \mu_E - \mu_O < 0$
- ☒ E. $H_0: \mu_E - \mu_O = 0$ $H_A: \mu_E - \mu_O \neq 0$

4. What are the degrees of freedom?

- A. ∞
- B. 14
- C. 13
- ☒ D. 12
- E. 11

5. What is the pooled variance, s_p^2 ?

- A. 4.5067
- ☒ B. 3.9025
- C. 2.2333
- D. 1.9755
- E. 1.9250

$$\frac{(6-1)(1.4)^2 + (8-1)(2.3)^2}{12}$$

$$\frac{9.8 + 37.03}{12} = \frac{46.83}{12}$$

Mathxl Final Exam Statistics Answer

**Margaret L. Lial, E. John Hornsby, John
Hornsby, Terry McGinnis**



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Statistics James T. McClave, Terry Sincich, 2009 KEY MESSAGE The Eleventh Edition of this highly regarded introductory text emphasizes inference and sound decision making through its extensive coverage of data collection and analysis McClave develops statistical thinking and teaches readers to properly assess the credibility of inferences from the vantage point of both the consumer and the producer This edition incorporates more exercises and more visual features such as redesigned end of chapter summaries and an increased use of applets This text assumes a mathematical background of basic algebra KEY TOPICS Statistics Data and Statistical Thinking Methods for Describing Sets of Data Probability Discrete Random Variables Continuous Random Variables Sampling Distributions Inferences Based on a Single Sample Estimation with Confidence Intervals Inferences Based on a Single Sample Tests of Hypothesis Inferences Based on a Two Samples Confidence Intervals and Tests of Hypotheses Analysis of Variance Comparing More Than Two Means Simple Linear Regression Multiple Regression and Model Building Categorical Data Analysis Nonparametric Statistics MARKET For all readers interested in statistics *Statistics* Michael Sullivan, 2007 For algebra based Introductory Statistics Courses This very popular text is written to promote student success while maintaining the statistical integrity of the course The author draws on his teaching experience and background in statistics and mathematics to achieve this balance Three fundamental objectives motivate this text 1 to generate and maintain student interest thereby promoting student success and confidence 2 to provide extensive and effective opportunity for student practice 3 Allowing for flexibility of teaching styles Datasets and other resources where applicable for this book are available here **Data Science and Social Research** N. Carlo Lauro, Enrica Amaturro, Maria Gabriella Grassia, Biagio Aragona, Marina Marino, 2017-11-17 This edited volume lays the groundwork for Social Data Science addressing epistemological issues methods technologies software and applications of data science in the social sciences It presents data science techniques for the collection analysis and use of both online and offline new big data in social research and related applications Among others the individual contributions cover topics like social media learning analytics clustering statistical literacy recurrence analysis and network analysis Data science is a multidisciplinary approach based mainly on the methods of statistics and computer science and its aim is to develop appropriate methodologies for forecasting and decision making in response to an increasingly complex reality often characterized by large amounts of data big data of various types numeric ordinal and nominal variables symbolic data texts images data streams multi way data social networks etc and from diverse sources This book presents selected papers from the international conference on Data Science Social Research held in Naples Italy in February 2016 and will appeal to researchers in the social sciences working in academia as well as in statistical institutes and offices **Elementary Statistics** Neil A. Weiss, 2008 Elementary Statistics Seventh Edition is appropriate for someone learning introductory statistics who has experience with algebra Elementary Statistics is thorough and precise and uses real data extensively

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