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

$$H_0: \pi = 0.29 \qquad H_A: \pi \neq 0.29$$

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

$$.5 - .3925$$

$.3925$

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):

Company	Sample Size	Mean	Standard Deviation
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

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

$$\frac{9.8 + 37.03}{2} = \frac{46.83}{12}$$

Exam 3A   ST204

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M Woodhall

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An Introductory Guide to EC Competition Law and Practice Valentine Korah,1994   *Basic Statistics* Boris Parl,1967
Research Guides to the Humanities, Social Sciences, Sciences, and Technology Martin Howard Sable,1986
Introduction to Medical Biometry and Statistics Raymond Pearl,1923   **The Mineral Industry, Its Statistics, Technology and Trade** ,1916   Basic Statistics David Blackwell,1967   Railway Signal Engineer ,1921   **Report** Massachusetts. Judicial Council,1930   *Electrical World* ,1923   **Using Basic Statistics in the Behaviorial Sciences** Annabel Ness Evans,1992 This text introduces the essentials of the statistical technique Rather than rote memorization of formulae the emphasis is on developing an understanding of the underlying logic of statistics Toward that end the author uses an informal prose style and avoids overwhelming the reader with complex notation and derivation Numerous exercises and problems graded for difficulty A list of Greek symbols used in statistics is found inside the front cover for quick reference

Business Statistics Naval Bajpai,2009 Business Statistics offers readers a foundation in core statistical concepts using a perfect blend of theory and practical application This book presents business statistics as value added tools in the process of converting data into useful information The step by step approach used to discuss three main statistical software applications MS Excel Minitab and SPSS which are critical tools for decision making in the business world makes this book extremely

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