

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):

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

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

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

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Statistics as Applied in Business Benjamin Franklin Young,1925 [A Manual of Problems and Tables in Statistics](#) Frederick Cecil Mills,Donald Hills Davenport,1925 [An Introductory Guide to EC Competition Law and Practice](#) Valentine Korah,1994

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