

FOR THE DIFFERENCE OF TWO POPULATION MEANS $\mu_X - \mu_Y$

INDEPENDENT SAMPLES WITH σ_X & σ_Y KNOWN

STEP 1

Set up the hypothesis.

- $H_0: \mu_X - \mu_Y = c$, where c is some constant, often 0 (e.g., if H_0 is $\mu_X = \mu_Y$)
- H_a : Choose $\mu_X - \mu_Y > c$, $\mu_X - \mu_Y < c$, or $\mu_X - \mu_Y \neq c$
- $\mu_X - \mu_Y$ = difference in the population means
- c = amount of the difference

STEP 2

Find the test statistic based on the data.

$$z = \frac{(\bar{X} - \bar{Y}) - (\mu_X - \mu_Y)}{\sqrt{\frac{\sigma_X^2}{n_X} + \frac{\sigma_Y^2}{n_Y}}}, \text{ where:}$$

- σ_X and σ_Y = two population standard deviations (given)
- n_X and n_Y = sample sizes, respectively
- $\mu_X - \mu_Y = c$ for some specified value (often 0)

STEP 3

Find the p -value for the test statistic (see For One Population Mean μ_D , p. 5).

STEPS 4 & 5

Make your decision and draw your conclusion in the context of the problem.

INDEPENDENT SAMPLES WITH σ_X & σ_Y UNKNOWN & ASSUMED TO BE EQUAL

STEP 1

Set up the hypothesis.

- $H_0: \mu_X - \mu_Y = c$, where c is some constant, often 0 (e.g., if H_0 is $\mu_X = \mu_Y$)
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- $\mu_X - \mu_Y$ = difference in the population means
- c = amount of the difference

STEP 2

Find the test statistic based on the data.

$$t_{df} = \frac{(\bar{X} - \bar{Y}) - (\mu_X - \mu_Y)}{s_p \sqrt{\frac{1}{n_X} + \frac{1}{n_Y}}}, \text{ where:}$$

- $df = n_X + n_Y - 2$
- $s_p = \sqrt{\frac{(n_X - 1)s_X^2 + (n_Y - 1)s_Y^2}{n_X + n_Y - 2}}$, where:
 - s_X and s_Y = two sample standard deviations from the data
 - n_X and n_Y = sample sizes, respectively
 - $\mu_X - \mu_Y = c$ for some specified value (often 0)

STEP 3

Find the p -value for the test statistic (see For One Population Mean μ_D , p. 5).

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INDEPENDENT SAMPLES WITH σ_X & σ_Y UNKNOWN & NOT ASSUMED TO BE EQUAL

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$$t_{df} = \frac{(\bar{X} - \bar{Y}) - (\mu_X - \mu_Y)}{\sqrt{\frac{s_X^2}{n_X} + \frac{s_Y^2}{n_Y}}}, \text{ where:}$$

- $df = \frac{\left(\frac{s_X^2}{n_X} + \frac{s_Y^2}{n_Y}\right)^2}{\left(\frac{s_X^2}{n_X}\right)^2 + \left(\frac{s_Y^2}{n_Y}\right)^2}$, where:
 - s_X and s_Y = two sample standard deviations from the data
 - n_X and n_Y = sample sizes, respectively
 - $\mu_X - \mu_Y = c$ for some specified value (often 0)

STEP 3

Find the p -value for the test statistic (see For One Population Mean μ_D , p. 5).

STEPS 4 & 5

Make your decision and draw your conclusion in the context of the problem.

FOR THE MEAN OF THE PAIRED DISTANCES, μ_D , IN DEPENDENT SAMPLES

STEP 1

Set up the hypothesis.

- $H_0: \mu_D = 0$
- H_a : Choose $\mu_D > 0$, $\mu_D < 0$, or $\mu_D \neq 0$

STEP 2

Find the test statistic based on the data.

$$t_{n-1} = \frac{\bar{d} - \mu_D}{\frac{s_d}{\sqrt{n}}}, \text{ where:}$$

- n = number of pairs of data
- \bar{d} = average of the differences in the pairs of data
- s_d = standard deviation of the differences in the pairs of data

STEP 3

Find the p -value for the test statistic (see For One Population Mean μ_D , p. 5).

STEPS 4 & 5

Make your decision and draw your conclusion in the context of the problem.

FOR THE DIFFERENCE IN TWO PROPORTIONS IN INDEPENDENT SAMPLES

STEP 1

Set up the hypothesis.

- $H_0: p_1 - p_2 = 0$ (or $p_1 = p_2$)
- H_a : Choose $p_1 - p_2 > 0$ (or $p_1 > p_2$), $p_1 - p_2 < 0$ (or $p_1 < p_2$), or $p_1 - p_2 \neq 0$ (or $p_1 \neq p_2$)
- $p_1 - p_2$ = difference in the population proportions

STEP 2

Find the test statistic based on the data.

$$z = \frac{(\hat{p}_1 - \hat{p}_2) - (\mu_{p_1} - \mu_{p_2})}{\sqrt{\hat{p}(1 - \hat{p})\left(\frac{1}{n_1} + \frac{1}{n_2}\right)}}, \text{ where:}$$

- $\hat{p} = \frac{x_1 + x_2}{n_1 + n_2}$, x_1 and x_2 = number of successes (yesses) in the two samples, respectively
- n_1 and n_2 = two sample sizes, respectively
- $\mu_{p_1} - \mu_{p_2} = c$ for some specified value (usually 0)
- **Conditions:** Use when $n_1 p_1 \geq 10$, $n_1(1 - p_1) \geq 10$, $n_2 p_2 \geq 10$, and $n_2(1 - p_2) \geq 10$.

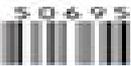
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Find the p -value for the test statistic (see For One Population Mean μ_D , p. 5).

STEPS 4 & 5

Make your decision and draw your conclusion in the context of the problem.

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Lingsheng Yao



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