

# **CÓMO USAR UNA CALCULADORA DE VALOR P EN LÍNEA**

# ¿Qué es una calculadora de valor p?

Una calculadora de valor p es un software al que introduces tu estadística de prueba (y los grados de libertad, si aplica), y da como resultado el valor p para la prueba.

Hay varias soluciones en línea, sin embargo, la que yo utilizaría normalmente es la de socstatistics @

<http://www.socscistatistics.com>



# ¿Cómo usar la calculadora de valor p en línea de socstatistics?

Paso 1: Visita:

<http://www.socscistatistics.com/pvalues/>

Hay varias opciones disponibles dependiendo de la prueba que necesites.

Paso 2: Elije la prueba aplicable a tu problema y haz clic en el enlace.

En este curso cubrimos el valor Z, el valor t y el valor razón-F.

The screenshot shows the 'Social Science Statistics' website. At the top, there is a navigation bar with links: Home, Statistical Calculators, Test Yourself Quizzes, Which Statistics Test?, Descriptive Statistics, P Value Calculators, Donate, About, and Contact. Below the navigation bar, there are three buttons: 'AdChoices', 'P Value', and 'SPSS Statistics'. The 'P Value' button is highlighted. Below the buttons, the section is titled 'Quick P-Value Calculators'. It states: 'This is a set of very simple calculators that generate p-values from various test scores (i.e., t test, chi-square, etc)'. There is a list of five options with arrows pointing to them from the right:

- P-value from Z score. (Arrow from 'Valor z, Distribución normal')
- P-value from t score. (Arrow from 'Valor t, Distribución T de Student')
- P-value from chi-square score.
- P-value from F-ratio score. (Arrow from 'Valor razón-f, Distribución F')
- P-value from Pearson (r) score.

At the bottom right of the page, there is a logo for '365 DataScience'.

# Valor p a partir de valor z

**Paso 1:** Escribe el valor Z que obtuviste en tu prueba.

**Paso 2 (opcional):** Elige el nivel de significación, si deseas obtener el resultado de tu prueba.

**Paso 3:** Elige si se trata de una prueba de unilateral o bilateral.

**Paso 4:** Haz clic en Calcular.

The screenshot shows the 'P Value from Z Score Calculator' interface. It includes a navigation bar with links like Home, Statistical Calculators, and P Value Calculators. Below the navigation bar are buttons for 'P Value Calculator', 'Z Score', and 'T Test Calculator'. The main section is titled 'P Value from Z Score Calculator' and contains instructions: 'This is very easy: just stick your Z score in the box marked Z score, select your significance level and whether you're testing a one or two-tailed hypothesis (if you're not sure, go with the defaults), then press the button!'. It also provides a link to a Z test calculator. The form has four input fields with arrows pointing to them from the right, labeled 'Paso 1' through 'Paso 4':

- Paso 1:** Points to the 'Z score' input box.
- Paso 2:** Points to the 'Significance Level' radio buttons (0.01, 0.05, 0.10).
- Paso 3:** Points to the 'One-tailed or two-tailed hypothesis?' radio buttons (One-tailed, Two-tailed).
- Paso 4:** Points to the 'Calculate' button.

At the bottom right of the page is the '365 DataScience' logo.

# Valor p a partir de valor z

**Paso 1:** Escribe el puntaje Z que obtuviste de tu prueba.

**Paso 2 (opcional):** Elige el nivel de significación, si deseas obtener la decisión para tu prueba.

**Paso 3:** Elige si se trata de una prueba unilateral o bilateral.

**Paso 4:** Haz clic en Calcular.

The screenshot shows the 'P Value from Z Score Calculator' interface. It includes a navigation bar with links like Home, Statistical Calculators, and P Value Calculators. The main content area has a title 'P Value from Z Score Calculator' and instructions. Four steps are annotated with arrows pointing to specific fields:

- Paso 1:** Points to the 'Z score:' input field.
- Paso 2:** Points to the 'Significance Level' radio buttons (0.01, 0.05, 0.10).
- Paso 3:** Points to the 'One-tailed or two-tailed hypothesis?' radio buttons (One-tailed, Two-tailed).
- Paso 4:** Points to the 'Calculate' button.

Below the instructions, there is a text prompt: 'Enter your z score value, and then press the button.'

# Valor p a partir de valor z. Ejemplo de resultado (Parte 1)

Después de hacer clic en 'Calcular', obtendrás instantáneamente dos resultados.

**Resultado 1:** El valor p de la prueba.

**Resultado 2:** La decisión, basada en la información que introdujiste anteriormente.

Nota: Cuando se utiliza esta calculadora de valor p en línea, un texto de color **rojo** significa que el resultado **no es significativo** dado el nivel de significación que has elegido.

Seth's Blog  
sethgodin.typepad.com

$$t = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left(\frac{(N_1 - 1)s_1^2 + (N_2 - 1)s_2^2}{N_1 + N_2 - 2}\right)\left(\frac{1}{N_1} + \frac{1}{N_2}\right)}}$$

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$$t = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left(\frac{(N_1 - 1)s_1^2 + (N_2 - 1)s_2^2}{N_1 + N_2 - 2}\right)\left(\frac{1}{N_1} + \frac{1}{N_2}\right)}}$$

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AdChoices | P Value | Z Score | T Test

### P Value from Z Score Calculator

This is very easy: just stick your Z score in the box marked Z score, select your significance level and whether you're testing a one or two-tailed hypothesis (if you're not sure, go with the defaults), then press the button!

If you need to derive a Z score from raw data, [you can find a Z test calculator here.](#)

Z score:

Significance Level:

☐ 0.01  
☒ 0.05  
☐ 0.10

One-tailed or two-tailed hypothesis?:

☒ One-tailed  
☐ Two-tailed

The P-Value is 0.109349.

The result is not significant at p < 0.05.

Calculate

Resultado 1

Resultado 2



# Valor p a partir de valor z. Ejemplo de resultado (Parte 2)

Después de hacer clic en 'Calcular', obtendrás instantáneamente dos resultados.

**Resultado 1:** El valor p de la prueba.

**Resultado 2:** La decisión, basada en la información que introdujiste anteriormente.

Nota: Cuando se utiliza esta calculadora de valor p en línea, un texto de color azul significa que el resultado es **significativo**, dado el nivel de significación que has elegido.

$$t = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left(\frac{(N_1 - 1)s_1^2 + (N_2 - 1)s_2^2}{N_1 + N_2 - 2}\right)\left(\frac{1}{N_1} + \frac{1}{N_2}\right)}}$$

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### P Value from Z Score Calculator

This is very easy: just stick your Z score in the box marked Z score, select your significance level and whether you're testing a one or two-tailed hypothesis (if you're not sure, go with the defaults), then press the button!

If you need to derive a Z score from raw data, [you can find a Z test calculator here.](#)

Z score:

Significance Level:

☐ 0.01  
☒ 0.05  
☐ 0.10

One-tailed or two-tailed hypothesis?:

☒ One-tailed  
☐ Two-tailed

The P-Value is 0.0002.

The result is significant at  $p < 0.05$ .

Calculate

Resultado 1

Resultado 2

# Valor p a partir de valor t

**Paso 1:** Escribe el puntaje que obtuvo de su prueba.

**Paso 2:** Escribe los grados de libertad asociados con su prueba.

**Paso 3 (opcional):** Elije el nivel de significación, si deseas obtener la decisión para tu prueba.

**Paso 4:** Elije si se trata de una prueba de unilateral o bilateral.

**Paso 5:** Haz clic en calcular.

The screenshot shows the 'Social Science Statistics' website's 'P Value from T Score Calculator' tool. The interface includes a navigation bar with links like 'Home', 'Statistical Calculators', and 'P Value Calculators'. Below the navigation bar, there are tabs for 'AdChoices', 'P Value', 'T Test', and 'SPSS Statistics'. The main heading is 'P Value from T Score Calculator'. A detailed instruction block explains how to use the calculator. Below this, there are input fields for 'T Score:' and 'DF:', followed by radio buttons for 'Significance Level' (.01, .05, .10) and 'One-tailed or two-tailed hypothesis?'. A 'Calculate' button is at the bottom. Five numbered steps with arrows point to specific parts of the interface: Paso 1 points to the 'T Score' input field, Paso 2 points to the 'DF' input field, Paso 3 points to the '.05' significance level radio button, Paso 4 points to the 'One-tailed' hypothesis radio button, and Paso 5 points to the 'Calculate' button.

$$t = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left(\frac{(N_1 - 1)s_1^2 + (N_2 - 1)s_2^2}{N_1 + N_2 - 2}\right)\left(\frac{1}{N_1} + \frac{1}{N_2}\right)}}$$

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### P Value from T Score Calculator

This should be self-explanatory, but just in case it's not: your T Score goes in the T Score box, you stick your degrees of freedom in the DF box ( $N - 1$  for single sample and dependent pairs,  $(N_1 - 1) + (N_2 - 1)$  for independent samples), select your significance level and whether you're testing a one or two-tailed hypothesis (if you're not sure, go with the defaults), then press the button!

If you need to derive a T Score from raw data, then you can find t test calculators here.

T Score:

DF:

Significance Level:

☐ .01

☒ .05

☐ .10

One-tailed or two-tailed hypothesis?:

☒ One-tailed

☐ Two-tailed

Enter your values for T Score and degrees of freedom, and then press the button.

Calculate

Paso 1

Paso 2

Paso 3

Paso 4

Paso 5



# Valor p a partir de valor z. Ejemplo de resultado (Parte 1)

Después de hacer clic en 'Calcular', obtendrás instantáneamente dos resultados.

**Resultado 1:** El valor p de la prueba.

**Resultado 2:** La decisión, basada en la información que introdujiste anteriormente.

Nota: Cuando se utiliza esta calculadora de valor p en línea, un color **rojo** del texto significa que el resultado **no es significativo**, dado el nivel de significación que has elegido.

$$t = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left(\frac{(N_1 - 1)s_1^2 + (N_2 - 1)s_2^2}{N_1 + N_2 - 2}\right)\left(\frac{1}{N_1} + \frac{1}{N_2}\right)}}$$

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If you need to derive a T Score from raw data, [then you can find t test calculators here.](#)

T Score:

DF:

Significance Level:

☐ .01

☒ .05

☐ .10

One-tailed or two-tailed hypothesis?:

☒ One-tailed

☐ Two-tailed

The P-Value is .093417.

The result is not significant at  $p < .05$ .

Calculate

Resultado 1

Resultado 2

# Valor p a partir de valor z. Ejemplo de resultado (Parte 2)

Después de hacer clic en 'Calcular', obtendrás instantáneamente dos resultados.

**Resultado 1:** El valor p de la prueba.

**Resultado 2:** La decisión, basada en la información que introdujiste anteriormente.

Nota: Cuando se utiliza esta calculadora de valor p en línea, un color **azul** del texto significa que el resultado **es significativo**, dado el nivel de significación que has elegido.

$$t = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left(\frac{(N_1 - 1)s_1^2 + (N_2 - 1)s_2^2}{N_1 + N_2 - 2}\right)\left(\frac{1}{N_1} + \frac{1}{N_2}\right)}}$$

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$$t = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left(\frac{(N_1 - 1)s_1^2 + (N_2 - 1)s_2^2}{N_1 + N_2 - 2}\right)\left(\frac{1}{N_1} + \frac{1}{N_2}\right)}}$$

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### P Value from T Score Calculator

This should be self-explanatory, but just in case it's not: your T Score goes in the T Score box, you stick your degrees of freedom in the DF box ( $N - 1$  for single sample and dependent pairs,  $(N_1 - 1) + (N_2 - 1)$  for independent samples), select your significance level and whether you're testing a one or two-tailed hypothesis (if you're not sure, go with the defaults), then press the button!

If you need to derive a T Score from raw data, [then you can find t test calculators here.](#)

T Score:

DF:

Significance Level:

☐ .01

☒ .05

☐ .10

One-tailed or two-tailed hypothesis?:

☒ One-tailed

☐ Two-tailed

The P-Value is .001482.

The result is significant at  $p < .05$ .

Note: If you wish to calculate the effect size, [this calculator](#) will do the job.

Calculate