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## **Finding P-value from Test**

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## **the P-Value in Hypothesis Testing**

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p value? Stats:  
Hypothesis Testing  
(P-value Method)

Lesson 4 - P-values  
In Hypothesis  
Testing *What Is A P  
Value*

In statistics, the p-value is the probability of obtaining results at least as extreme as the observed results of a

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statistical hypothesis test, assuming that the null hypothesis is correct. The...

## *P-Value Definition*

The p-value is defined as the probability, under the null hypothesis about the unknown distribution of the test statistic , to

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have observed a value as extreme or more extreme than the value actually observed. If  $t$  is the observed value, then very often, "as extreme or more extreme than what was actually observed" means  $\{t \geq t_{obs}\}$  (right-tail event), but one often also looks at

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outcomes which are ...

*p-value - Wikipedia*

The p-value is a number, calculated from a statistical test, that describes how likely you are to have found a particular set of observations if the null hypothesis were true. P-values

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are used in hypothesis testing to help decide whether to reject the null hypothesis. The smaller the p-value, the more likely you are to reject the null hypothesis.

*Understanding P-values | Definition and Examples*

*Page 16/40*



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A p-value is the probability that, if the null hypothesis were true, we would observe a statistic at least as extreme as the one observed. To calculate a p-value we use the appropriate software or statistical table that corresponds

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with our test statistic.

*What Is a P-Value - ThoughtCo*

P-value does not hold any value by itself. A large p-value implies that sample scores are more aligned or similar to the population score. It is as simple as

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that. Now, you might have come across the thumb rule of comparing the p-value with the alpha value to draw conclusions.

*What is P value | P value Examples Statistics, Data Science*

P Value is a probability score

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that is used in statistical tests to establish the statistical significance of an observed effect. Though p-values are commonly used, the definition and meaning is often not very clear even to experienced Statisticians and

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Data Scientists.

Stories To Help

*What is P-Value? -*

*Understanding the*

*meaning, math and*

Statistics

P-Value

Hypothetical

frequency called

the P-value, also

known as the

“observed

significance level”

for the test

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hypothesis. The traditional definition of P-value and statistical significance has revolved around null hypotheses, and we treat all other assumptions that are used to calculate P-value as if they are all correct.

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## Anyway 34

*What is P-value?*

*Every Data*

*Scientist must have  
come ...*

The p-value is a  
number between 0  
and 1 and

interpreted in the  
following way: A  
small p-value  
(typically  $\leq 0.05$ )  
indicates strong  
evidence against

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the null hypothesis, so you reject the null hypothesis. A large p-value ( $> 0.05$ ) indicates weak evidence against the null hypothesis, so you fail to reject the null hypothesis.

*What a p-Value Tells You about Statistical Data -*



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The p -value is conditional upon the null hypothesis being true is unrelated to the truth or falsity of the research hypothesis. A p -value higher than 0.05 ( $> 0.05$ ) is not statistically significant and indicates strong

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evidence for the  
null hypothesis.

This means we  
retain the null  
hypothesis and  
reject the  
alternative  
hypothesis.

*P-Values and  
Statistical  
Significance |  
Simply Psychology*

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A P value is the probability of obtaining an effect at least as extreme as the one in your sample data, assuming the truth of the null hypothesis. For example, suppose that a vaccine study produced a P value of 0.04.

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*How to Correctly Interpret P Values*

P Values The P value, or calculated probability, is the probability of finding the observed, or more extreme, results when the null hypothesis ( $H_0$ ) of a study question is true – the definition of ‘extreme’

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depends on how  
the hypothesis is  
being tested.

*P Values  
(Calculated  
Probability) and  
Hypothesis Testing*

...

Given the null  
hypothesis is true,  
a p-value is the  
probability of  
getting a result as

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or more extreme than the sample result by random chance alone. If a p-value is lower than our significance level, we reject the null hypothesis. If not, we fail to reject the null hypothesis.

Created by Sal Khan.

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*P-values and significance tests (video) | Khan Academy*

A p-value, or probability value, is a number describing how likely it is that your data would have occurred under the null hypothesis of your statistical test. Frequently

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asked questions:  
Statistics Are  
ordinal variables  
categorical or  
quantitative?  
What's the  
difference between  
central tendency  
and variability?

*What is a p-value?*  
- Scribbr

A p- value is a  
probability



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associated with your critical value. The critical value depends on the probability you are allowing for a Type I error. It measures the chance of getting results at least as strong as yours if the claim ( $H_0$ ) were true.

The following figure shows the locations

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of a test statistic  
and their  
corresponding  
conclusions.

## Understand *How to Determine a p-Value When Testing a Null Hypothesis ...*

A p value of 0.5  
suggests that there  
is a 50-50 chance  
that the findings of  
the study are

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significant. A p value of 0.05 (the value customarily used to suggest that research results are statistically significant) means that there is a 5% chance that the results of the study occurred by chance alone.

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*P value | definition of p value by Medical dictionary*

P value is a statistical measure that helps scientists determine whether or not their hypotheses are correct. P values are used to determine whether the results of their

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experiment are within the normal range of values for the events being observed.

## Statistics

*How to Calculate P Value: 7 Steps (with Pictures) - wikiHow*

In statistical hypothesis testing, the p-value or probability value is,

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for a given statistical model, the probability that, when the null hypothesis is true, the statistical summary (such as the absolute value of the sample mean difference between two compared groups) would be greater than or equal to

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the actual  
observed results.

*P-values Explained  
By Data Scientist |  
by Admond Lee ...*

Discussion about  
the p value... what  
it means and how  
to interpret it. If  
the null were true!  
reject or fail to  
reject?

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