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sal explains what it means for quantities to vary directly or inversely and gives many examples of both types of variation created by sal khan questions tips thanks 1 a the act or process of varying the state or fact of being varied b an instance of varying c the extent to which or the range in which a thing varies 2 declination sense 6 3 a a change of algebraic sign between successive terms of a sequence b a measure of the change in data a variable or a function 4 variation in biology any difference between cells individual organisms or groups of organisms of any species caused either by genetic differences genotypic variation or by the effect of environmental factors on the expression of the genetic potentials phenotypic variation overview calculus of variations and partial differential equations attracts and collects many of the important top quality contributions to this field of research and stresses the interactions between analysts geometers and physicists the calculus of variations or variational calculus is a field of mathematical analysis that uses variations which are small changes in functions and functionals to find maxima and minima of functionals mappings from a set of functions to the real numbers calculus of variations branch of mathematics concerned with the problem of finding a function for which the value of a certain integral is either the largest or the smallest possible many problems of this kind are easy to state but their solutions commonly involve difficult procedures of the differential calculus and differential equations 5 1 introduction to the calculus of variations page id douglas cline

university of rochester during the 18th century bernoulli who was a student of leibniz developed the field of variational calculus which underlies the integral variational approach to mechanics an important characteristic of any set of data is the variation in the data in some data sets the data values are concentrated closely near the mean in other data sets the data values are more widely spread out from the mean the most common measure of variation or spread is the standard deviation key points charles darwin was a british naturalist who proposed the theory of biological evolution by natural selection darwin defined evolution as descent with modification the idea that species change over time give rise to new species and share a common ancestor the mechanism that darwin proposed for evolution is natural selection ,veəri'eɪfn ,veri'eɪfn word family countable uncountable variation in of something a change especially in the amount or level of something the dial records very slight variations in pressure currency exchange rates are always subject to variation regional seasonal variation depending on the region or time of year extra examples something that is slightly different from the usual form or arrangement there are wide variations in the way pensioners have benefited from the system the films she makes are all variations on the same theme c music specialized one of several short tunes that are based on the same simple tune but are different from it and from the others the coefficient of variation cv is a relative measure of variability that indicates the size of a standard deviation in relation to its mean it is a standardized unitless measure that allows you to compare variability between disparate groups and characteristics it is also known as the relative standard deviation rsd noun the act process or accident of varying in condition character or degree prices are subject to variation synonyms difference divergence deviation modification alteration mutation an instance of this there is a variation in the quality of fabrics in this shipment amount rate extent or degree of change genetic variation is the difference in dna among individuals or the differences between populations among the same species the multiple sources of genetic variation include mutation and genetic recombination mutations are the ultimate sources of genetic variation but other mechanisms such as genetic drift contribute to it as well measures

of variation of the data one of the differences between the two data sets that any measure of center doesn't capture is the variety of data within the set to describe the variation quantitatively we use measures of variation or measures of spread just as there are several different measures of center there are also several variation is a way to show how data is dispersed or spread out several measures of variation are used in statistics different measures of variation the range a range is one of the most basic measures of variation it is the difference between the smallest data item in the set and the largest noun ,vəri'eɪfɪn countable uncountable variation in of something a change especially in the amount or level of something the dial records very slight variations in pressure currency exchange rates are always subject to variation regional seasonal variation depending on the region or time of year awl collocations definitions on the go in music variation is a formal technique where material is repeated in an altered form the changes may involve melody rhythm harmony counterpoint timbre orchestration or any combination of these variation is often contrasted with musical development which is a slightly different means to the same end 1 answer sorted by 0 variation of is used to compare two things that doesn't necessarily mean the same thing cognac is a french variation of brandy while variation in is talking about slight differences in the objects levels amount and so on a variation order is issued by company to contractor as an instruction to vary the scope of the contracted work variations may be changes either increases or reductions in the amount type quality execution or schedule of the work the contractor will submit an estimate for the work unless both parties agree that this is not necessary

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1 a the act or process of varying the state or fact of being varied b an instance of varying c the extent to which or the range in which a thing varies 2 declination sense 6 3 a a change of algebraic sign between successive terms of a sequence b a measure of the change in data a variable or a function 4

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overview calculus of variations and partial differential equations attracts and collects many of the important top quality contributions to this field of research and stresses the interactions between analysts geometers and physicists

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calculus of variations branch of mathematics concerned with the problem of finding a function for which the value of a certain integral is either the largest or the smallest possible many problems of this kind are easy to state but their solutions commonly involve difficult procedures of the differential calculus and differential equations

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5 1 introduction to the calculus of variations page id douglas cline university of rochester during the 18th 18 t h century bernoulli who was a student of leibniz developed the field of variational calculus which underlies the integral variational approach to mechanics

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an important characteristic of any set of data is the variation in the data in some data sets the data values are concentrated closely near the mean in other data sets the data values are more widely spread out from the mean the most common measure of variation or spread is the standard deviation

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key points charles darwin was a british naturalist who proposed the theory of biological evolution by natural selection darwin defined evolution as descent with modification the idea that species change over time give rise to new species and share a common ancestor the mechanism that darwin proposed for evolution is natural selection

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something that is slightly different from the usual form or arrangement there are wide variations in the way pensioners have benefited from the system the films she makes are all variations on the same theme c music specialized one of several short tunes that are based on the same simple tune but are different from it and from the others

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the coefficient of variation cv is a relative measure of variability that indicates the size of a standard deviation in relation to its mean it is a standardized unitless measure that allows you to compare variability between disparate groups and characteristics it is also known as the relative standard deviation rsd

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noun the act process or accident of varying in condition character or degree prices are subject to variation synonyms difference divergence deviation modification alteration mutation an instance of this there is a variation in the quality of fabrics in this shipment amount rate extent or degree of change

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genetic variation is the difference in dna among individuals or the differences between populations among the same species the multiple sources of genetic variation include mutation and genetic recombination mutations are the ultimate sources of genetic variation but other mechanisms such as genetic drift contribute to it as well

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measures of variation of the data one of the differences between the two data sets that any measure of center doesn't capture is the variety of data within the set to describe the variation quantitatively we use measures of variation or measures of spread just as there are several different measures of center there are also several



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variation is a way to show how data is dispersed or spread out several measures of variation are used in statistics different measures of variation the range a range is one of the most basic measures of variation it is the difference between the smallest data item in the set and the largest

## **variation noun definition pictures pronunciation and**

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noun ,vəri'eɪfɪn countable uncountable variation in of something a change especially in the amount or level of something the dial records very slight variations in pressure currency exchange rates are always subject to variation regional seasonal variation depending on the region or time of year awl collocations definitions on the go

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in music variation is a formal technique where material is repeated in an altered form the changes may involve melody rhythm harmony counterpoint timbre orchestration or any combination of these variation is often contrasted with musical development which is a slightly different means to the same end

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1 answer sorted by 0 variation of is used to compare two things that doesn t necessarily mean the same thing cognac is a french variation of brandy while variation in is talking about slight differences in the objects levels amount and so on

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a variation order is issued by company to contractor as an instruction to vary the scope of the contracted work variations may be changes either increases or reductions in the amount type quality execution or schedule of the work the contractor will submit an estimate for the work unless both parties agree that this is not necessary

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