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Calculus is a branch of mathematics that deals with the study of the rate of change. It was developed by Newton and Leibniz. Calculus is generally used in mathematical models to obtain optimal solutions and thus helps in understanding the changes between the values related by a function. Calculus is broadly classified into two parts: differential calculus and integral calculus. Differential calculus cuts something into small pieces to find how it changes, while integral calculus joins the small pieces together to find how much there is. Calculus is used to cut time and distance into such small pieces that a pure answer can be obtained. Calculus is originally called infinitesimal calculus or the calculus of infinitesimals. It is the mathematical study of continuous change in the same way that geometry is the study of shape and algebra is the study of generalizations of arithmetic operations.

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