

Mathematical Induction

The principle of mathematical induction is a method for proving that a statement $P(n)$ is true for all natural numbers n . It consists of two steps: the base case and the inductive step. The base case is the statement $P(1)$, which is true. The inductive step is the statement that if $P(k)$ is true for some natural number k , then $P(k+1)$ is also true. If both steps are proven, then $P(n)$ is true for all natural numbers n .

For example, let $P(n)$ be the statement that the sum of the first n natural numbers is $\frac{n(n+1)}{2}$. The base case is $P(1)$, which is true because $1 = \frac{1(1+1)}{2}$. The inductive step is to show that if $P(k)$ is true, then $P(k+1)$ is also true. Assume $P(k)$ is true, so $1 + 2 + \dots + k = \frac{k(k+1)}{2}$. Then $1 + 2 + \dots + k + (k+1) = \frac{k(k+1)}{2} + (k+1) = \frac{(k+1)(k+2)}{2}$, which is $P(k+1)$. Therefore, $P(n)$ is true for all natural numbers n .

Example: Prove that $2^n > n$ for all natural numbers n .
Base case: $2^1 = 2 > 1$.
Inductive step: Assume $2^k > k$. Then $2^{k+1} = 2 \cdot 2^k > 2 \cdot k > k+1$.
Therefore, $2^n > n$ for all natural numbers n .

Example: Prove that $1 + 2 + \dots + n = \frac{n(n+1)}{2}$ for all natural numbers n .
Base case: $1 = \frac{1(1+1)}{2}$.
Inductive step: Assume $1 + 2 + \dots + k = \frac{k(k+1)}{2}$. Then $1 + 2 + \dots + k + (k+1) = \frac{k(k+1)}{2} + (k+1) = \frac{(k+1)(k+2)}{2}$.
Therefore, $1 + 2 + \dots + n = \frac{n(n+1)}{2}$ for all natural numbers n .

Answers For Problem Of The Month Party Time

**United States. Congress. Joint Select
Committee on the Condition of Affairs
in the Late Insurrectionary States**

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Southwestern Monuments: Monthly Report United States. National Park Service,1938 **Report of and Testimony** United States. Congress Joint Select Committee on the Condition of Affairs in the Late Insurrectionary States,1872 **Testimony Taken by the Joint Select Committee to Inquire Into the Condition of Affairs in the Late Insurrectionary States** United States. Congress. Joint Select Committee to Inquire into the Condition of Affairs in the Late Insurrectionary States,1872 Testimony Taken by the Joint Select Committee to Inquire into the Condition of Affairs South Carolina Anonymous,2023-03-13 Reprint of the original first published in 1872 The publishing house Anatiposi publishes historical books as reprints Due to their age these books may have missing pages or inferior quality Our aim is to preserve these books and make them available to the public so that they do not get lost **House Documents** USA House of Representatives,1872 Report of the Joint Select Committee Appointed to Inquire in to the Condition of Affairs in the Late Insurrectionary States United States. Congress. Joint Select Committee on the Condition of Affairs in the Late Insurrectionary States,1872 **Miscellaneous Documents** United States. Congress. House,1871 *American state papers* USA,1832 **American State Papers** United States. Congress,1832 class I Foreign relations 6 v 1st Cong 20th Cong 1st sess April 30 1789 May 24 1828 class II Indian affairs 2 v 1st Cong 19th Cong May 25 1789 March 1 1827 class III Finance 5 v 1st Cong 20th Cong 1st sess April 11 1789 May 16 1828 class IV Commerce and navigation 2 v 1st Cong 17th Cong April 13 1789 Feb 25 1823 Class V Military affairs 7 v 1st Cong 25th Cong 2d sess Aug 10 1789 March 1 1838 class VI Naval affairs 4 v 3d Cong 24th Cong 1st sess Jan 20 1794 June 15 1836 class VII Postoffice department 1 v 1st Cong 2d sess 22d Cong Jan 22 1790 Feb 21 1833 class VIII Public lands 8 v 1st Cong 24th Cong July 1 1790 Feb 28 1837 class IX Claims 1 v 1st Cong 2d sess 17th Cong Feb 5 1790 March 3 1823 class X Miscellaneous 2 v 1st Cong 17th Cong April 17 1789 March 3 1823 Testimony Taken by the Joint Select Committee to Inquire Into the Condition of Affairs in the Late Insurrectionary States United States. Congress House,1872 *Table Talk* ,1888 **Congressional Record** United States. Congress,1975 **Reports of Committeess** ,1872 Senate Documents United States Senate,1872 **The Debates and Proceedings in the Congress of the United States** United States. Congress,1855 **Reports of Committees** United States. Congress. Senate,1872 **Report of the Joint Select Committee to Inquire Into the Condition of Affairs in the Late Insurrectionary States, Made to the Two Houses of Congress February 19, 1872: Testimony, Alabama** ,1872 **Report of the Joint Select Committee to Inquire Into the Condition of Affairs in the Late Insurrectionary States: Testimony taken by the Joint Select Committee to inquire into the condition of affairs in the late insurrectionary states: Alabama (June 2-November 11, 1871)** United States. Congress. Joint Select Committee on the Condition of Affairs in the Late Insurrectionary States,1872 **Report of the Joint Select Committee to Inquire Into the Condition of Affairs in the Late Insurrectionary States, So Far as Regards the Execution of the Laws, and**

Safety of the Lives and Property of the Citizens of the United States and Testimony Taken: Testimony taken by the committee (June 2-Nov. 11, 1871) Alabama United States. Congress. Joint Select Committee on the Condition of Affairs in the Late Insurrectionary States,1872 Report of the Joint Select Committee to Inquire Into the Condition of Affairs in the Late Insurrectionary States United States. Congress. Joint Select Committee on the Condition of Affairs in the Late Insurrectionary States,1872

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