



# FORMULAS

'The laws of nature are but the mathematical thoughts of God.'  
Euclid

FORMULA No.

**W13**

[www.and-just-math.com](http://www.and-just-math.com)

We are not mathematicians, but we love mathematics and create formulas ourselves.

'No other science boosts the faith in the strength of the human spirit like mathematics.'  
Hugo Steinhaus

**1 WEEK = 7 DAYS**  
**=**  
**7 FORMULAS**

**NEW MATHEMATICAL FORMULA DAILY**



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**D131**

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$$\sum_{k=1}^{k=n} \frac{5^k \times (k - 2)}{(k + 3)!} = \frac{5}{6} - \frac{5^{n+1}}{(n + 3)!} \quad k, n \in \mathbb{N}$$

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$k, n \in \mathbb{N}$

$$\sum_{k=1}^{k=n} k \times k! = (n + 1)! - 1$$

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$k, n \in \mathbb{N}$

$$\sum_{k=1}^{k=n} (k + 1) \times (k + 1)! = (n + 2)! - 2$$

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$$\sum_{k=1}^{k=n} \frac{(k-1) \times k!}{2^{k+1}} = \frac{(n+1)!}{2^{n+1}} - \frac{1}{2} \quad k, n \in \mathbb{N}$$

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$k, n \in \mathbb{N}$

$$\sum_{k=1}^{k=n} (k - 1) \times (k - 1)! = n! - 1$$

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$k, n \in \mathbb{N}$

$$\sum_{k=1}^{k=n} 2^k \times (2 \times k + 1) \times k! = 2^{n+1} \times (n + 1)! - 2$$

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$$\sum_{k=1}^{k=n} \frac{k \times (k + 1)!}{2^k} = \frac{(n + 2)!}{2^n} - 2 \quad k, n \in \mathbb{N}$$

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We invite you every  
week and every day  
to our website  
[www.and-just-math.com](http://www.and-just-math.com)

Thanks for:  
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