



The world's computational knowledge engine™

Wolfram|Alpha works by using its vast store of expert-level knowledge to compute answers and generate reports about questions you ask

permutation (1 3 5)(2 4)(6 7 8)(9 10 11)

Enter what you want to calculate or know about.

Input interpretation:

(1 3 5) (2 4) (6 7 8) (9 10 11) (permutation)

Notations:

Two-line notation:

$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 \\ 3 & 4 & 5 & 2 & 1 & 7 & 8 & 6 & 10 & 11 & 9 \end{pmatrix}$$

Permutation cycles:

(1 3 5) (2 4) (6 7 8) (9 10 11)

Permutation list:

{5, 4, 1, 2, 3, 8, 6, 7, 11, 9, 10}

Permutation rules:

1 → 3 | 2 → 4 | 3 → 5 | 4 → 2 | 5 → 1 | 6 → 6 | 7 → 8 | 8 → 6 | 9 → 10 | 10 → 11 | 11 → 9

Basic properties:

inverse	(1 5 3) (2 4) (6 8 7) (9 11 10)
order	6
signature	-1 (odd)
index	18

Wolfram|Alpha uses its built-in knowledge and computational capabilities to figure out the answer and give you a complete report about your topic.

question / computation

eeee?

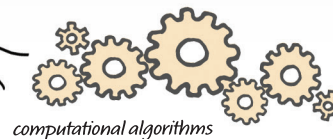
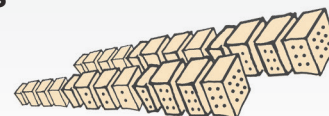
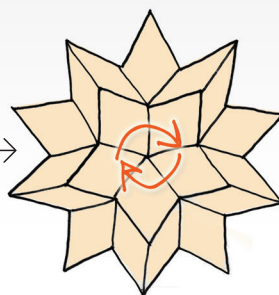


linguistic understanding

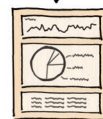


symbolic representation

How Wolfram|Alpha Works



definite answer



extended report

Where can I use Wolfram|Alpha?

Wolfram|Alpha's long-term goal is to make all systematic knowledge immediately computable and accessible to everyone—aiming to bring expert-level knowledge and capabilities to the broadest possible range of people, spanning all professions and education levels. Here are a few examples showing the scope of Wolfram|Alpha's knowledge base.

At Work

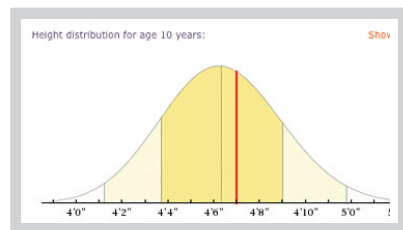
compare ratings for multiple stocks

compute a pediatric tracheal tube size

get data on a freight container



At Home



get a local weather forecast

compute a growth chart

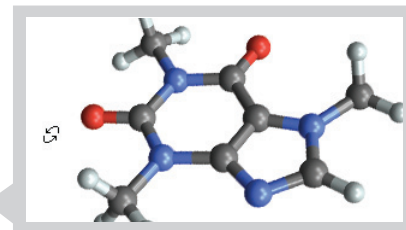
get nutritional data

At School

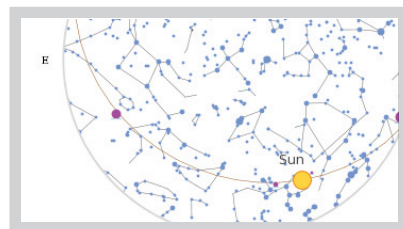
solve an equation

get information about a past political leader

get information about a chemical element



At Play



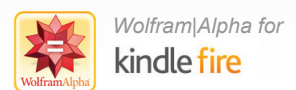
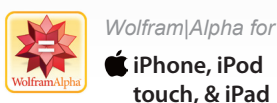
get information about an Academy Award

generate a star chart

find words with a specified ending

Take Wolfram|Alpha to Go!

With special features designed for iOS, Android, and now the NOOK and Kindle Fire, Wolfram|Alpha mobile apps let you access the full power of the Wolfram|Alpha knowledge engine wherever and whenever you need it.



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