

MATHguide



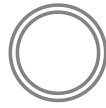
SEGMENT ONE: IMPORTANCE

BY MARK KARADIMOS

AVAILABLE ON VIDEO AT...

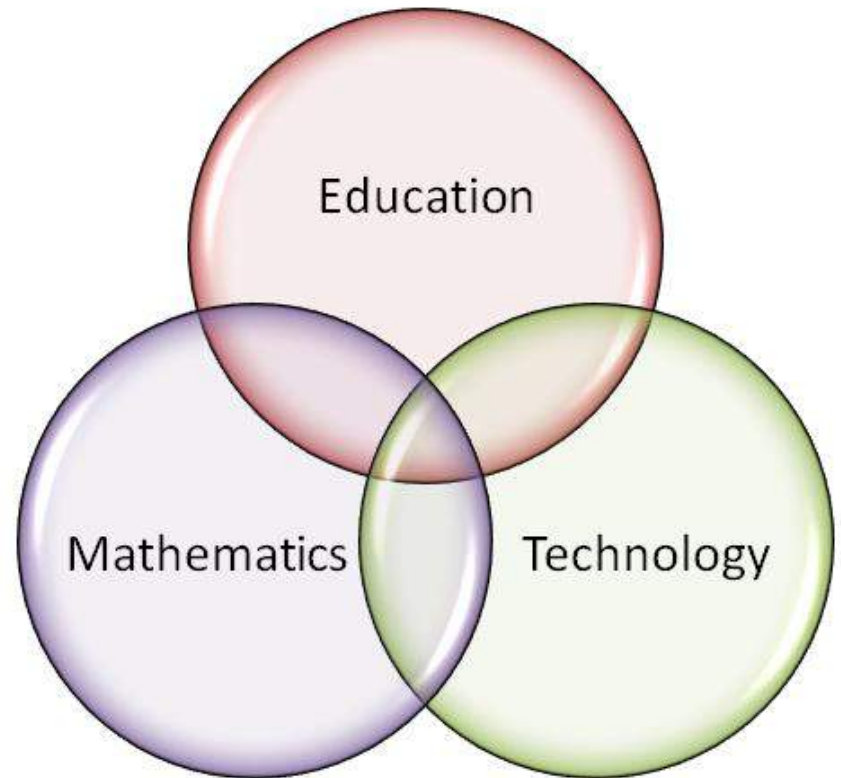
[HTTPS://WWW.YOUTUBE.COM/WATCH?V=NXGRVJUSHVS](https://www.youtube.com/watch?v=nxgrvjushvs)

MATHguide



MATHguide, the
intersection of:

- **Education**
- **Mathematics**
- **Technology**



MATHguide



Overview (core)

- Lessons
- Quizmasters
- Videos

Pythagorean Theorem

[Home](#) > [Lessons](#) > [Pythagorean Theorem](#) [Search](#) | Updated February 22nd, 2019

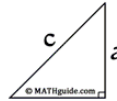
Introduction

In this section, you will learn:

- [Pythagoras' Equation](#)
- [How to Derive The Pythagorean Theorem](#)
- [How to Find the Length of a Hypotenuse Given Two Sides](#)
- [How to Find the Leg Given a Hypotenuse and a Leg](#)
- [Instructional Videos](#)
- [Interactive Quizzes](#)
- [Activities](#)
- [Related Lessons](#)

Pythagoras' Equation

The Pythagorean Theorem is a mathematical relationship between the sides of a right triangle. A right triangle is any triangle that has one right internal angle. Pythagoras stated, if the length of the legs (smallest side) are squared and their sum is found, the sum will be equal to the square of the hypotenuse (longest side). Algebraically speaking, the relationship looks like...

$$a^2 + b^2 = c^2$$


© MATHguide.com

The Pythagorean Theorem

Pythagorean Theorem Quizmaster

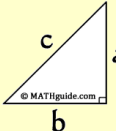
[Review the Lesson](#) | [MATHguide homepage](#) Updated November 21st, 2016

Waiting for your answer...

Refer to the triangle to the right and then report your answer to the nearest tenth.

$$a^2 + b^2 = c^2$$


Given: $a = 5$ and $b = 9$
Find: $c =$



© MATHguide.com

MATHGUIDE

The Pythagorean Theorem

$$a^2 + b^2 = c^2$$


$a = 4$ $b = 3$

$$b^2 + a^2 = c^2$$
$$3^2 + 4^2 = c^2$$
$$9 + 16 = c^2$$
$$25 = c^2$$

© MATHguide.com

Play (6)

3:58 / 7:07

MATH 5.1.1.2

MATHguide



- Navigability
- Cohesively Intertwined Content

Dividing Fractions

[Home](#) > [Lessons](#) > Dividing Fractions

[L](#)

[Systems of Linear Equations](#)

[L](#) [Q](#) [A](#) [V](#)

[Addition](#)

[L](#) [Q](#) [A](#) [V](#)

[Multiplication/Addition \(Linear Combination\)](#)

[L](#) [Q](#) [A](#) [V](#)

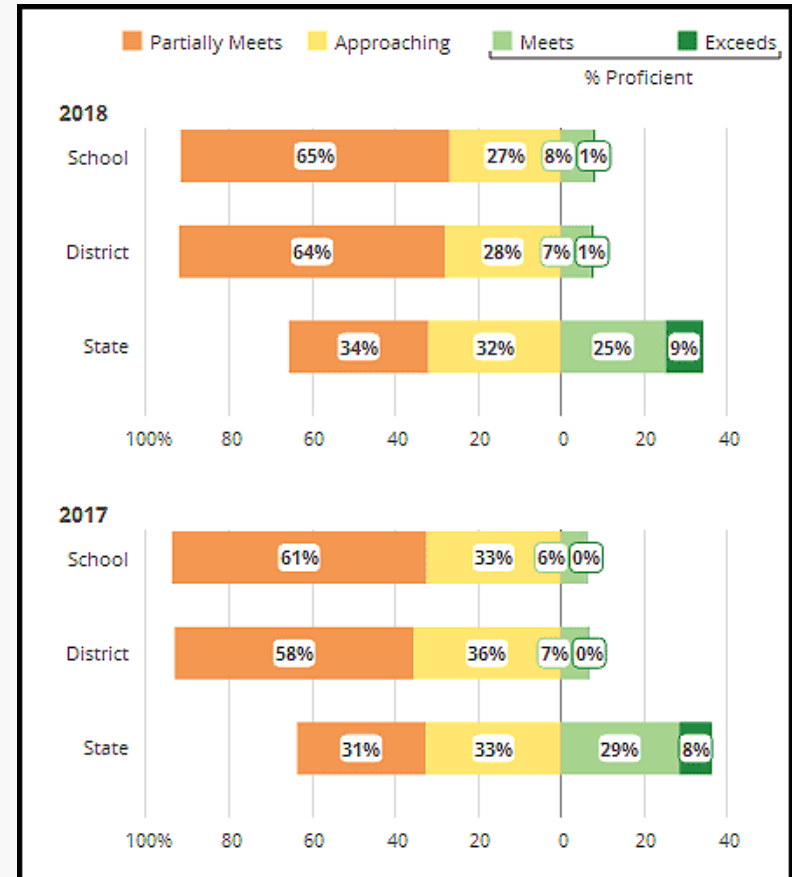
[Substitution](#)

MATHguide



Great for Low Functioning Populations

- Absenteeism, Chronically Truant
- Students with Behavior Disorders
- English not First Language
- Low Meets/Exceeds



MATHguide



Great for High Functioning Populations

- Asynchronous Education Platform
- Self-Motivated Students



MATHguide



Bulletin Board Service

- Space to Ask Questions
- Space to Dialogue

MATHGUIDE
The HELP Center

A free bulletin board for mathematics education. **Register** to get started.

Welcome, Admin. You are logged into the Forums. | [Edit Profile](#) | [Search](#) | [Log Out](#) | [Help](#) | [Refresh](#)

[Administrator Options](#) | [Teamz Manager](#) | [Skin Changer](#) | [Administrator's Manual](#)

You last logged out on 28-Feb-19 18:52 | [View Today's Active Topics](#)

Welcome to The HELP Center. If you would like to post a message, you first need to **register**. It's completely free to register and post messages and only requires the use of an active e-mail account.

Forum	Topics/Posts	Last Post	Moderators
Lessons			
Existing Math Lessons Students go here for current online math lessons.	165 / 168	11-Apr-19 12:32	Admin
Extra Credit This is the place students go to get special extra credit assignments.	36 / 47	19-Dec-11 13:30	Admin
Algebra Help			
Functions Discover the properties of non-trigonometric functions, like inverses, domain, range, evaluation, ...	11 / 16	29-May-19 12:05	Admin
Order of Operations Basic computations are handled in this forum.	6 / 9	09-Aug-17 09:44	Admin
Solving Equations and Inequalities Solving equations and inequalities is the topic here.	26 / 58	30-Jan-19 11:54	Admin
Polynomials Learn about various properties, like zeros, factors, expressions, and graphs.	7 / 9	25-May-19 12:13	Admin
Geometry Help			
Proofs Questions and comments related to proofs are handled here.	10 / 12	23-Feb-19 12:51	Admin
Shapes and Structures This forum handles questions related to physical shapes and structures. See also: geometry volume	15 / 39	19-Apr-19 09:13	Admin