



ATI TEAS Study Guide



MATH

A PDF Guide to the ATI TEAS Math Test

This guide features information on the topics within the ATI TEAS Math Test.

August 2017

PREPARING FOR THE TEAS MATH TEST

How do I Prepare for the TEAS Math Test?

To properly prepare for the TEAS Math test, it is crucial that you focus on the key topics within each mathematical area of the test. Below you will find extensive lists of these topics for the arithmetic, algebra, measurement, and data components of the TEAS Math test.

TEAS Math Test Structure and Timing

You will have 54 minutes to answer the 36 questions on the Math section. There are two topics covered on the ATI TEAS Math section:

- *Numbers & Algebra: 23 questions altogether worth 72% of the Math section.*
- *Measurement & Data: 9 questions altogether worth 28% of the Math section.*
- *An additional four pretest items included in this section do not count towards your TEAS score.*

TOPICS TO FOCUS ON FOR:

Arithmetic

- Arithmetic: understand at least the four basic operations, negative numbers, positive numbers, percentages, decimals, and fractions.
- Place Value: understand how each number in a sequence can be identified as a "one," "ten," "hundred," "thousand," and so on, depending on its relationship with the place value.
- Number Order: understand how to compare numbers by aligning their place values.
- Nonnegative integers: understand how nonnegative integers, commonly called positive whole numbers and described as complete units that are greater than zero, operate as counting numbers.
- Negative numbers: understand the rules when working with negative numbers, including multiplication, division, addition, and subtraction.
- Order of operations: understand PEMDAS—Parentheses, Exponents, Multiplication, Division, Addition, and Subtraction—a key rule applicable to solving expressions and choosing in which order to solve each expression.
- Decimals: understand how to read and work with decimals, including adding, subtracting, multiplying, and dividing decimal numbers.
- Fractions: understand the relationship between the denominator and the numerator, how to work with equivalent fractions and mixed fractions, how to find the greatest common factor of a fraction, and how to order fractions.
- Percentages: understand how to add and subtract percentages and how to calculate percentage amounts.

TOPICS TO FOCUS ON FOR:

Algebra

- Constants and variables: understand that variables are symbols representing a value that is either unknown or non-specific, compared to constants that are values that do not change.
- Combining terms when working with equations and expressions: understand that combining coefficients in some circumstances allows simplification of the expression that needs to be solved.
- Isolate a variable: understand how to isolate a variable by using methods such as inverse operations.
- Problem solving: understand that problems presented in words and not just numbers can be "translated" into numerical expressions. Understand terminology variants for all four of the basic operations (quotient, for example, indicates that division is required).
- Problems that incorporate percentage, proportion, ratio, or rate of change: understand that percentages can be written as decimals, proportions work with ratios, ratios can often be simplified, and rates of change are a focus on the relationship between two measurements.

[Start Practicing with the ATI TEAS Math Pack Now!](#)

TOPICS TO FOCUS ON FOR:

Measurement

- US standard system of measurement: understand the different units of measurement, including pounds, fluid ounces, and feet.
- Metric system of measurement: understand the different units of measurement, including kilos, grams, centimeters, meters, and liters.
- Converting between the two systems of measurement: understand a few conversions (1 meter is about 3.2 feet), and become comfortable applying and reversing them.
- Geometric/physical quantities: understand how to work out the perimeter, area, volume, height, width, and conversion of different shapes and units.

TOPICS TO FOCUS ON FOR:

Data

- Reading data: understand how to read different graphs, charts, and tables and the main purpose of the use of each different style of graphic representation.
- Estimation: understand how to quickly estimate, or "guesstimate," a figure to help you check your answer and to familiarize yourself with reading and interpreting graphic representations quicker.
- Rounding: understand how to round up or round down numbers to speed up or check your work.
- Variable relationships: understand how to read and recognize relationships that are not constant and can be classified as a response and explanatory relationship—one variable responds to the other.

A FINAL WORD

**Our newly updated ATI TEAS practice tests have been launched!
View our practice packs here:**

<https://www.testprep-online.com/teas-practice-tests>

Get Our Best-Selling ATI TEAS Premium Practice Pack

What's included in the pack:

- Two full-length ATI TEAS practice tests (340 questions)
- 8 additional ATI TEAS Reading exercises (191 questions)
- 5 additional ATI TEAS Math exercises (94 questions)
- 2 additional ATI TEAS Science exercises (32 questions)
- 6 additional ATI TEAS English & Language Usage exercises (120 questions)
- Answers with detailed explanations
- Personalized score reports
- Secured payment & immediate online access

To get started go straight to the ATI TEAS Premium Pack on our website:

<https://www.testprep-online.com/teas-premium-pack>



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