

ATI TEAS 7 Study Guide



MATH

A PDF Guide to the ATI TEAS 7 Math
Test

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 57 minutes to answer the 38 questions on the math section. There are two topics covered on the ATI TEAS 7 math section:

- **Numbers & Algebra:** 18 questions altogether worth 47% of the section.
- **Measurement & Data:** 16 questions altogether worth 42% of the section.
- An additional four unscored items.

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

TOPICS TO FOCUS ON FOR:

Arithmetic & Algebra

- Understand how to use addition, subtraction, multiplication, division, powers and roots on integers (positive numbers), negative numbers, fractions and decimals.
- **Order of operations:** know PEMDAS—Parentheses, Exponents, Multiplication, Division, Addition, and Subtraction—a key rule applicable to solving expressions and choosing which order to solve each expression.
- **Place value:** learn how to identify the place value of each digit in a number as a "one," "ten," "hundred," or "thousand," and so on.
- **Number Order:** understand how to compare numbers by aligning their place values.
- **Rounding:** understand how to round up or round down numbers to speed up or check your work.
- **Fractions:** know the relationship between the denominator and the numerator, how to work with equivalent fractions and mixed fractions, how to find the lowest common denominator, how to order fractions, and how to convert them into decimals and percentages.
- **Decimals:** understand how to read and work with decimals, how to identify place values in decimals, how to order decimals and how to convert them into fractions and percentages.
- **Percentages:** understand how to calculate percentages and how to convert them into decimals and fractions.
- **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.
- **Equations and inequalities:** understand the steps to solving equations and inequalities, such as combining terms, isolating a variable, and flipping the sign when dividing or multiplying by a negative number in inequalities.
- **Problem solving:** understand that problems presented in words and not just numbers can be "translated" into numerical expressions. Know how to solve problems that involve percentages, proportion, ratio, rate of change, etc.

TOPICS TO FOCUS ON FOR:

Measurement & Data

- **US standard system of measurement:** know the different units of measurement in the US system, such as pounds, fluid ounces, and feet.
- **Metric system of measurement:** know the different units of measurement in the Metric system, such as kilos, grams, centimeters, meters, and liters.
- **Converting between measurements:** understand how to convert between units from different systems of measurement (for instance- from meters to feet), and between units from the same system of measurement (for instance- from meters to kilometers).
- **Geometric/physical quantities:** know how to calculate different geometric quantities such as perimeter, area and volume for different geometric shapes.
- **Reading data:** know how to read different graphs, charts, and tables, and learn the main purpose and uses of each different style of graphic representation.
- **Variable relationships:** learn the difference between independent and dependent variables and between positive and negative correlations, and how to identify them on a graph.
- **Statistics terms:** understand how to find the mode, mean, median and range of a set of data.

A FINAL WORD

Our newly updated ATI TEAS 7 practice tests have been launched!

View our practice packs here:

<https://https://www.testprep-online.com/teas-7>

Get Our 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
- 3 comprehensive study guides
- Secured payment & immediate online access