

# SAT MATH DIAGNOSTIC EXAM

This diagnostic test was designed to give you a rough idea of what you would score in SAT math on the revised March 2016 exam. Since an actual SAT has not yet been administered there is currently no way to accurately report your score on practice tests. Nonetheless, I hope that this diagnostic exam will serve as a quick and easy way to estimate your current ability level.

Please take this diagnostic just as you would take the SAT. Notice that for the first part of the test a calculator is not allowed. For the second part of the test you may use a calculator. Please time yourself accurately and stop working as soon as your time is up. Continuing to answer questions after time is up will decrease the accuracy of your score. There is an answer key and scoring guide on the last page of this document.

## REFERENCE

For your convenience, here are the formulas that you will be given on the SAT. Feel free to look back at these formulas as your taking the diagnostic exam.



$$A = \pi r^2$$

$$C = 2\pi r$$



$$A = lw$$



$$A = \frac{1}{2}bh$$



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



Special Right Triangles



$$V = lwh$$



$$V = \pi r^2 h$$



$$V = \frac{4}{3}\pi r^3$$



$$V = \frac{1}{3}\pi r^2 h$$



$$V = \frac{1}{3}lwh$$

The number of degrees of arc in a circle is 360.

The number of radians of arc in a circle is  $2\pi$ .

The sum of the measures in degrees of the angles of a triangle is 180.

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