Level 1

Mt. SAC Math Placement Test

For placement into:

LERN 48 - Basic Math Skills Review
LERN 49 - Math Skills Review
MATH 50 - Pre-Algebra
MATH 51 - Elementary Algebra
MATH 51A - Elementary Algebra – First Half *
MATH 70S - Integrated Intermediate Algebra **

The Mt. San Antonio College Mathematics Department wishes that you have a pleasant experience and success with your math classes at Mt. SAC.

The Level 1 test is **45 minutes** long and consists of **35 questions**. Calculators are **not** permitted. Your score will be used to help determine your math placement according to the following:

<table>
<thead>
<tr>
<th>Score</th>
<th>Eligibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 8</td>
<td>LERN 48: Basic Math Skills Review</td>
</tr>
<tr>
<td>9 - 16</td>
<td>LERN 49: Math Skills Review</td>
</tr>
<tr>
<td>17 - 24</td>
<td>Math 50: Pre-Algebra</td>
</tr>
<tr>
<td>25 - 35</td>
<td>Math 51: Elementary Algebra</td>
</tr>
<tr>
<td></td>
<td>Math 51A: Elementary Algebra – First Half *</td>
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<tr>
<td></td>
<td>Math 70S: Integrated Intermediate Algebra **</td>
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</tbody>
</table>

The material in the placement test is generally covered in a typical pre-algebra course in high school. You will want to refer to the six sample questions that follow. If you wish to consult a reference prior to taking the placement test, you might consult the current Math 50 textbook, available at the Mt. SAC bookstore for purchase, or any pre-algebra textbook.

* Math 51A is the first of a two-sequence course (Math 51A and 51B). Taking both courses is equivalent to taking Math 51, Elementary Algebra.

** Math 70S is the first of a two-sequence course (Math 70S and Math 110S). After taking both courses, the second course (Math 110S) will satisfy your GE Math requirement, and possibly statistics. This sequence is not for STEM (Science, Technology, Engineering, and Math) majors. See your counselor for details.

A SAMPLE OF 6 QUESTIONS CAN BE FOUND ON THE BACK OF THIS PAGE
Sample Test Questions

The sample questions that follow are designed to inform you of the format and level of expertise required for the placement test. This sample is much shorter than the actual test and does not represent all of the topics covered in the test. **Being able to correctly answer these questions does not necessarily guarantee success on the test.**

1. Round 15,764 to the nearest hundred.
   - a. 16,000
   - b. 15,700
   - c. 15,800
   - d. 15,000
   - e. 15,760

2. Solve for $x$: $-3x + 10 = -41$
   - a. $\frac{31}{3}$
   - b. $-17$
   - c. $-48$
   - d. $17$
   - e. $-\frac{31}{3}$

3. During a bowling tournament, David bowled games of 210, 195, 213, 201, 226, and 155. What was his average score for the six games?
   - a. 200
   - b. 1200
   - c. 226
   - d. 201
   - e. none of these

4. Simplify: $-9 - (-14) + 5(4^2 - 3)$
   - a. 42
   - b. 70
   - c. 23
   - d. 30
   - e. 10

5. Simplify: $(5x - 7)(3x + 4)$
   - a. $15x^2 + x - 28$
   - b. $15x^2 + x + 28$
   - c. $14x - 28$
   - d. $15x^2 + 41x - 28$
   - e. $15x^2 - x - 28$

6. Evaluate if $x = -3$ and $y = \frac{2}{3}$:
   - $-5x^2 + 3y - x$
   - a. 50
   - b. $-48$
   - c. 230
   - d. $-40$
   - e. 44

Answers: 1. c  2. d  3. a  4. b  5. e  6. d

Additional sample test questions are available at [http://www.mtsac.edu/assessment/testinfo.html](http://www.mtsac.edu/assessment/testinfo.html)