Course: Math 105, Arithmetic  
Section 0292: TTh 12:25pm- 13:50pm: Math Center  

Instructor: Spencer Gerhardt  
Office Hours: MW 4:00pm- 4:30pm;  
Or by appointment  
Office: Math Center  
Phone: (818) 364-7600 ext. 4176  
Email: sjgerhar@yahoo.com  


Important Dates:  
Feb. 18: President’s Day, College closed  
Mar. 03: Last day to drop without a “W”  
Mar. 24-30: Spring Break,  
Mar. 31: Cesar Chavez Day, College closed  
May 05: Last day to drop with a “W”  
May 29: Final Exam 12:30pm-2:30pm  

Course Description: We will cover the following topics:  
• Ch 1 The Whole Numbers  
• Ch 2 Multiplying and Dividing Fractions  
• Ch 3 Adding and Subtracting Fractions  
• Ch 4 Decimals  
• Ch 5 Ratios and Proportions  
• Ch 6 Percentages  
• Ch 8 Geometry  
• Ch 10 Signed Numbers  
• Ch 11 Introduction to Algebra  

Course Objectives:  
1) Define place values.  
2) Perform operations on whole numbers.  
3) Understand rounding and estimation.  
3) Introduce problem solving techniques.  
4) Solve numerical equations with exponents.  
5) Solve numerical equations involving order of operations.  
6) Solve problems involving the multiplication and division of fractions.  
7) Solve problems involving the multiplication and division of exponents.  
8) Provide the prime factorization of numbers.  
9) Find the least common multiples of sets of numbers.  
10) Solve problems involving the addition and subtraction of fractions.  
11) Solve problems involving operations on decimals and rounding.  
12) Define ratios and proportions.  
13) Define percentages and fractions.  
14) Solve percentage problems using ratios and proportions.  
15) Analyze perimeters and areas as they apply to circles and triangles.  
16) Analyze perimeters and areas as they apply to rectangles.  
17) Determine the solutions of problems involving square roots.  
18) Solve equations by using the Pythagorean theorem.  
20) Define operations on signed numbers.  
21) Define variables.  
22) Introduce problem solving techniques used in algebra.  

Course Organization: The course will follow the attached course schedule as closely as possible.  
This is a lecture-based course with in-class work.
Tutorial: Drop-in tutoring is available at the Math Center located in the basement of the Campus Center and in the Math Lab located in the Learning Center.

Homework/Group assignments/Online assignments:
Homework will be assigned and collected every week. All homework assignments should be handed in before the lecture starts. Work MUST be shown and no credit will be given for a list of answers. Late homework will not be accepted.

Exams: There will be four exams. The lowest grade will be dropped. There will be no make-up examinations; the missed exam will be the one dropped. Any other missed exam will receive a grade of 0. The final will be given May 29th 12:30pm - 2:30pm. There are no make-ups for the final and all students must take the final exam.

Grading:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Class Participation/Homework</td>
<td>10%</td>
</tr>
<tr>
<td>Exams (Best Three)</td>
<td>60%</td>
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<tr>
<td>Final</td>
<td>30%</td>
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</tbody>
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Attendance: Students are expected to attend all class meetings. Unexcused absences of four meetings may result in excluding students from class. Students themselves are responsible for dropping a class they no longer attend; failure to do so may result in a grade of F.

Tentative Schedule Math 105

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Material Covered</th>
<th>Test Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Feb 05, 07</td>
<td>Orientation; 1.1 to 1.4</td>
<td></td>
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<tr>
<td>2</td>
<td>Feb 12, 14</td>
<td>1.5 to 1.9</td>
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<td>3</td>
<td>Feb 19, 21</td>
<td>2.1 to 2.4</td>
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<tr>
<td>4</td>
<td>Feb 26, 28</td>
<td>2.5, Review</td>
<td>Ch1 and 2 Feb 28</td>
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<tr>
<td>5</td>
<td>Mar 04, 06</td>
<td>3.1 to 3.3</td>
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<tr>
<td>6</td>
<td>Mar 11, 13</td>
<td>3.4 to 3.6</td>
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<tr>
<td>7</td>
<td>Mar 18, 20</td>
<td>4.1 to 4.5</td>
<td></td>
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<tr>
<td>8</td>
<td>Apr 01,03</td>
<td>4.6 to 4.7, Review</td>
<td>Ch3 and 4 Apr 03</td>
</tr>
<tr>
<td>9</td>
<td>Apr 08, 10</td>
<td>5.1 to 5.4</td>
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<tr>
<td>10</td>
<td>Apr 15, 17</td>
<td>6.1 to 6.4</td>
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<tr>
<td>11</td>
<td>Apr 22, 24</td>
<td>8.1 to 8.3, Review</td>
<td>Ch5 and 6 Apr 24</td>
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<tr>
<td>12</td>
<td>Apr 29, May 01</td>
<td>8.4, 8.6, 10.1-10.3</td>
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<tr>
<td>13</td>
<td>May 06, 08</td>
<td>10.4-10.5, Review</td>
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<tr>
<td>14</td>
<td>May 13, 15</td>
<td>11.1 to 11.3</td>
<td>Ch8 and 10 May 13</td>
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<td>15</td>
<td>May 20, 22</td>
<td>11.4 to 11.5; Final Review</td>
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Final Exam: Thursday May 29th, 12:30pm - 2:30pm