

**COURSE: FUNDAMENTALS OF MATHEMATICS (MATH-0500)**

**TEXTBOOK:** Developmental Mathematics: Basic Mathematics and Algebra – by Lial, Hornsby, McGinnis, Salzman, Hestwood

<b>PUBLISHER'S RESOURCES:</b>	<ul style="list-style-type: none"> <li>• <b>Included free with the purchase of a New unbound three-hole Textbook:</b></li> <li>(1) "MY MATH LAB" with online video lectures, interactive tutorials, animations, and a multimedia textbook.</li> <li>(2) "MY MATH LAB ACCESS KIT" which includes a code, and a user's guide for registering online; you will also need the course ID (ccri18362) and the zip code (02886).</li> <li>(3) Help from mathematics instructors via toll-free telephone, fax, e-mail or the Internet from the Publisher's Tutor Center</li> </ul>
<b>MATH LAB RESOURCES:</b>	<ul style="list-style-type: none"> <li>• <b>While working in the Math Lab all students have access to:</b></li> <li>(1) A Student's Solution Manual, which provides worked-out solutions to the odd-numbered section exercises and to all Margin, Relating Concepts, Summary, Chapter Review, Chapter Test, and Cumulative Review exercises.</li> <li>(2) Individual Instruction from CCRI mathematics instructors.</li> <li>(3) Computers for "MyMathLab."</li> </ul>

- \*\*NOTE(1):** Step-by-step solutions to all required highlighted exercises in Chapter Reviews, Chapter Tests, and Cumulative Reviews, as indicated below, must be kept in a notebook. YOUR NOTEBOOK SHALL BE AVAILABLE FOR REVIEW BY YOUR INSTRUCTOR BEFORE AND AFTER EACH TEST. You must bring this with you when you take a test. Do not take a test until you are able to at least do the Chapter-Review and Chapter-Test Exercises (as indicated below) without relying on sample problems and/or answers in the back of the book.
- NOTE(2):** Before taking your test carefully read the Summary at the end of any assigned chapter to help you review new terms, new formulas, and concepts introduced in that chapter.
- NOTE(3):** **EACH TEST WILL INCLUDE SOME PROBLEMS BASED ON PREVIOUS CHAPTERS STUDIED.**
- NOTE(4):** Calculators will not be allowed when testing. If a required exercise shows a calculator icon, do it without a calculator then check with a calculator.
- NOTE(5):** TO BE ABLE TO FINISH YOUR COURSE ON TIME, YOU SHOULD COMPLETE THE REQUIRED MATERIAL FOR A TEST AND PASS EACH TEST BEFORE EACH GUIDELINE (NOT DEADLINE) DATE INDICATED.
- NOTE(6):** It is your responsibility to check the Math Lab bulletin board and hand in an attendance slip each time you attend the Lab (including testing).

2010	TITLE	WATCH SECTION VIDEOS	READ TEXTBOOK PAGES	DO HOMEWORK EXERCISES AT END OF EACH SECTION / CHAPTER
<b>TEST 1</b> Should be taken during the week of <b>Sep. 20</b>	<b><u>WHOLE NUMBERS</u></b>			
	Reading and Writing Whole Numbers	1.1	2-8	1,11,15,17,21,27,33
	Adding Whole Numbers	1.2	9-18	9,15,21,39,47,53,57,71,77,83,85,87
	Subtracting Whole Numbers	1.3	19-28	13,19,23,31,39,57,67,71,79,81,89,91,97
	Multiplying Whole Numbers <b>[Review X Facts.]</b>	1.4	29-38	5,29,39,49,61,71,77,83,87,89,91,101,111,113
	Dividing Whole Numbers [You may omit the Real-Data Applications on page. 48 and all others throughout the book.]	1.5	39-52	5,9,11,13,15,23,25,29,31,39,45,53,67,71,79,85,93
	Long Division	1.6	53-62	1,3,11,13,15,23,25,31,33,37,43,45,47,49
	Rounding Whole Numbers	1.7	63-72	5,13,19,33,37,39,47,59,73
	Exponents, Roots & Order of Operations	1.8	73-78	1,5,9,17,27,29,35,39,49,65,69
	Solving Application Problems	1.10	85-92	3,7,11,13,21,23,37
	<b>** CHAPTER 1 Summary/Review Exercises</b>		<b>93-104</b>	<b>7,9,13,17,21,25,39,41,53,59,65,69,81,87,89,97,99,</b>
	<b>** CHAPTER Review Test</b>		<b>105,106</b>	<b>100,103,109,123,137,141,147,151,153,161</b> <b>All</b>
<b>TEST 2</b> on Chapters <u>2 and 3</u> Should be taken before or during the week of <b>Oct. 4</b>	<b><u>MULTIPLYING &amp; DIVIDING FRACTIONS</u></b>			
	Basics of Fractions	2.1	108-112	1,3,5,7,9,13,17,21,23,25
	Mixed Numbers	2.2	113-120	1,19,25,31,47,55,57,59,63,67,69,73
	Factors	2.3	121-126	1,7,13,26,33,37,47,51,53,55,61,63,65,67
	Writing a Fraction in Lowest Terms	2.4	127-132	5,15,19,27,29,35,37,39,47,51,53
	Multiplying Fractions	2.5	133-142	7,13,17,25,33,37,44(ans. pg. 135)
	Applications of Multiplication	2.6	143-150	1,3,5,7,13,17,25,27,29
	Dividing Fractions	2.7	151-160	1,7,9,19,25,27,29,33,35,37,45,47,49,51
	Multiplying and Dividing Mixed Numbers	2.8	161-170	1,5,9,11,13,17,21,23,25,33,39
	<b>** CHAPTER 2 Summary/Review Exercises</b>		<b>171-178</b>	<b>1,5,7,9,11,16,18,21,23,24,26,33,37,38,42,43,48,50,</b>
	<b>** CHAPTER 2 Review Test</b>		<b>179,180</b>	<b>51,55,57,64,66,68,69,71,75,77</b> <b>All</b>
	<b><u>ADDING &amp; SUBTRACTING FRACTIONS</u></b>			
	Adding & Subtracting Like Fractions	3.1	182-186	7,15,27,33,35,37,39
	Least Common Multiples	3.2	187-196	9,17,19,21,25,39,47,49,51, 55,57,59,61
	Adding and Subtracting Unlike Fractions	3.3	197-204	1,11,15,21,23,27,35,39,41,43,45,47,49,51
Adding & Subtracting Mixed Numbers	3.4	205-216	5,11,13,15,19,21,25,37,47,48,57,59,65,67,69,71,73	
Order Relations and the Order of Operations	3.5	217-224	11,13,15,27,31,41,51,55,57,63,69,71,73,75,79	
<b>**CHAPTER 3 Summary/Review Exercises</b>		<b>225-234</b>	<b>9,13,15,21,28,39,42,43,51,53,67,75,76,77,82,88,93</b>	
<b>**CHAPTER 3 Review Test</b>		<b>235,236</b>	<b>All</b>	

2010	TITLE	SECTION VIDEOS	TEXTBOOK PAGES	HOMEWORK EXER. AT END OF EACH SECT./CHAP.
<b>TEST 3</b> should be taken before or during the week of <b>Oct. 18</b>	<b><u>DECIMALS</u></b>			
	Reading & Writing Decimals	4.1	238-246	1,5,13,17,19,21,25,33,37,39,45,47,49,55,57,59,69
	Rounding Decimals	4.2	247-254	1,5,7,11,13,19,21,25,29,33,37,39,41
	Adding & Subtracting Decimals	4.3	255-262	1,3,9,17,19,27,45,53,57
	Multiplying Decimals	4.4	263-268	1,3,9,15,17,19,21,27,31,37,39,51
	Dividing Decimals	4.5	269-278	1,3,5,9,13,15,21,23,33,37,49,55
	Writing Fractions as Decimals	4.6	279-286	1,3,7,11,13,17,25,27,29,31,37,41,47,51,53,55,63,69
**CHAPTER 4 Summary/Review Exercises		<b>287-294</b>	<b>1,9,13,16,20,21,26,29,32,38,43,44,49,54,55,58,59,61,62,65,66,70,75,82</b>	
**CHAPTER 4 Review Test		<b>295,296</b>	<b>All, except 25</b>	
<b>TEST 4</b> on Chapter 5 and some Appendix topics should be taken before or during the week of <b>Nov. 1</b>	<b><u>RATIO AND PROPORTION</u></b>			
	Ratios	5.1	298-306	5,9,11,13,15,17,19,21,23,25,35,37,39,41,43,49
	Rates	5.2	307-314	1,5,7,9,17,25,27,31
	Proportions	5.3	315-320	1,5,7,13,17,19,25,29,31,33,37
	Solving Proportions	5.4	321-326	1,5,9,15,19,21,23
	Solving Application Problems with Proportions	5.5	327-334	1,3,7,9,11,19,25,33
	**CHAPTER 5 Summary/Review Exercises		<b>335-344</b>	<b>1,4,7,8,9,10,11,12,13,18,22,25,26,27,30,33,36,37,45,53,60,66,67,69,70</b>
**CHAPTER 5 Review Test		<b>345,346</b>	<b>All</b>	
Problem Solving with English Measurement [Ask your instructor for the handout on Metric Conversions (0500-Test 4).]	A.1	[Skip 347-1224.] AP(2) – AP(12)	<b>1,5,7,11,13,19,23,25,35,39,43,45,48,55,59</b>	
The Metric System – Length	A.2	AP(13) – AP(20)	<b>1,3,5,17,25,27,29,35,37,43</b>	
The Metric System – Capacity & Weight (Mass)	A.3	AP(21) – AP(30)	<b>1,5,9,11,13,17,31,33,37,41,53,61,67,71,73</b>	
<b>TEST 5</b> should be taken before or during the week of <b>Nov. 15</b>	<b><u>PERCENT</u></b>			
	Basics of Percent	6.1	348-358	1,7,11,13,15,17,21,27,29,35,37,43,53
	Percents and Fractions (and Decimals)	6.2	359-370	3,7,11,15,17,23,27,29,39 (83 1/3% exact), 45,47,49,51(16 2/3% exact),55,65,71,79,81,85,87,89
	Using the Percent Proportion and Identifying the Components in a Percent Problem	6.3	371-378	1,7,21,23,27,36 ( 410 / 1230 = 33 1/3 / 100), 39,41,43,45,55,57
	Using Proportions to Solve Percent Problems	6.4	379-392	1,5,7,15,17,19,21,27,29,35,39,41,43,45,71,75
	Using the Percent Equation [An optional alternative method is available for those having difficulty with percent. Ask your instructor for this handout. (0500 Test-5).]	6.5	393-400	Odd numbers 1-41, 53
	Solving Application Problems with Percent [On these and all remaining percent problems, use the method with which you are most comfortable.]	6.6	401-410	1,3,7,9,11,15,17,19,37,39,41,47
**CHAPTER 6 Summary/Review Exercises		[Skip 411-424.] <b>425-436</b>	<b>1,2,5,7,9,10,11,13,14,15,17,18,19,21,22,23,29,31,33,43,51,52,53,54,55,56,85,86,88</b>	
**CHAPTER 6 Review Test		<b>437,438</b>	<b>1-11,12,13,14,15,16,17,18,20,21</b>	
<b>TEST 6</b> on part of Chapter 7 be taken before or during the week of <b>Nov. 29</b>	<b><u>GEOMETRY</u></b>			
	Rectangles and Squares	7.2	[Skip 439-454.] 455-464	1,3,5,9,13,15,17,21,23
	Triangles [Omit EXAMPLE 5.]	7.4	[Skip 465-470.] 471-473 [Skip 474.] 475-478	1,3,5,7,9,19,25
	Circles	7.5	479-488	1,3,5,9,11,13,15,19,21,33
	Volume and Surface Area [Only do OBJECTIVE 1, Volume of Rectangular Solid and OBJECTIVE 3, Volume of a Cylinder: pages 489-490,492.]	7.6	489-492 [Skip 493-496.] 497-499	1,7,13,19,21,23,25,27,29,31
	**CHAPTER 7 Summary/Review Exercises		[Skip 500-518.] <b>519-538</b>	<b>19,21,22,24,29,30,31,34,35,36,38,39,40,42,43,47,92</b>
	**CHAPTER 7 Review Test		<b>539,540</b>	<b>9,10,13,14,16,17,20,25</b>
<b>[Test 6 has twenty-five questions. Nine are from chapter 7. The remaining questions are from previous topics such as fractions, decimals, proportions, and percents. Test your skills: What percent are review questions?]</b>				