

MATH 021 BASIC MATHEMATICS PACING CHART

Week	Sections from Textbook	Topics from Course Outline	Suggested HW Problems	Suggested Testing Schedule
1	1.1 through 1.7	Reading and writing whole numbers Order, place value, and rounding Perform basic mathematical operations with whole numbers	1.1 - all 1.2 - #1 - 55 odd 1.3 - #1 - 35 odd, 41 - 67 odd, 1.4 - #1 - 57 odd 1.5 - #1 - 35 odd 1.6 - #7 - 29 odd, 37 - 47 odd, 57 - 69 odd 1.7 - #1 - 29 odd, 49 - 59 odd	
2	1.8, 1.9, 2.1, 2.2, 2.3	Evaluate exponents with whole numbers Order of operations with whole numbers Problem solving with whole numbers Identify proper fractions, improper fractions, and mixed numbers Reduce fractions to simplest form Factors and prime factorization	1.8 - #1 - 21 odd 1.9 - #1 - 93 every other odd and 99, 101 2.1 - #1 - 39 odd, 49 - 85 odd 2.2 - #1 - 45 odd 2.3 - #1 - 31 odd, 53 - 61 odd	
3	2.4, 2.5, 3.1, 3.2	Multiply and divide fractions Add and subtract like fractions Least common multiple	2.4 - #1 - 23 odd, 53 - 67 odd 2.5 - #1 - 33 odd, 37 - 47 odd 3.1 - #1 - 49 odd 3.2 - #1 - 17 odd, 33 - 51 odd	Test #1 (Chapters 1 & 2)
4	3.3, 3.4, 3.5, 3.6	Add and subtract unlike fractions Add and subtract mixed numbers Order of fractions and mixed numbers Evaluate exponents with fractions Order of operations with fractions Problem solving with fractions	3.3 - #1 - 15 odd, 29 - 43 odd 3.4 - #7 - 17 odd, 27 - 45 odd 3.5 - #1 - 27 odd, 49 - 69 odd 3.6 - #1 - 21 odd	
5	4.1, 4.2, 4.3, 4.4	Reading and writing decimals Place value, order, and rounding of decimals Perform basic mathematical operations with decimals	4.1 - #1 - 11 odd, 23 - 31 odd, 39 - 47 odd, 55 - 65 odd 4.2 - #1 - 49 odd 4.3 - #1 - 53 odd 4.4 - #1 - 51 odd	
6	4.5, 4.6, 5.1, 5.2	Order of operations with decimals Evaluate exponents with decimals Set up and evaluate ratios and rates	4.5 - #1 - 27 odd, 37 - 49 odd 4.6 - #1 - 31 odd, 39 - 45 odd, 67, 71 5.1 - #1 - 41 odd 5.2 - #1 - 21 odd, 39 - 45 odd	Test #2 (Chapters 3 & 4)
7	5.3, 5.4, 6.1, 6.2, 6.3	Set up and solve proportions Use proportions to solve problems Understand relationship between percents, fractions, and decimals Solve percent problems using equations	5.3 - #1 - 23 odd, 37 - 53 odd 5.4 - #1 - 23 odd 6.1 - #1 - 49 odd 6.2 - #1 - 43 odd 6.3 - #1 - 33 odd	

8	6.4, 6.5, 6.6	Solve percent problems using proportions Applications of percents	6.4 - #1 - 33 odd 6.5 - #1 - 25 odd, 35 - 41 odd 6.6 - #1 - 23 odd	Test #3 (Chapters 5 & 6)
9	7.1, 7.2, 7.3, 7.4, 7.5	Understand the basic units of the U.S and Metric systems Convert measurements	7.1 - #1 - 105 every other odd 7.2 - #1 - 97 every other odd 7.3 - #1 - 85 every other odd 7.4 - #1 - 47 odd 7.5 - #1 - 29 odd	
10	8.1, 8.2, 8.3, 8.4	Identify angles and their measurements Identify basic geometry shapes Calculate perimeter and area of basic shapes	8.1 - #1 - 43 odd 8.2 - #1 - 55 odd 8.3 - #1 - 51 odd 8.4 - #1 - 47 odd	
11	8.5, 8.6, 9.1, 9.2, 9.3	Calculate volume of basic shapes Calculate square roots Apply Pythagorean Theorem Read and evaluate data from charts and graphs. Calculate mean, median, and mode of data sets	8.5 - #1 - 23 odd 8.6 - #1 - 35 odd 9.1 - #1 - 69 odd 9.2 - #1 - 23 odd 9.3 - #1 - 11 odd, 15 - 29 odd	
12	10.1, 10.2, 10.3, 10.4	Perform basic mathematical operations with signed numbers Identify the absolute value and opposite of signed numbers Order of operations with signed numbers Evaluate exponents with signed numbers	10.1 - #1 - 73 odd 10.2 - #9 - 59 odd 10.3 - #1 - 55 odd 10.4 - #1 - 65 odd	Test #4 (Chapters 7, 8 & 9)
13	10.5, 11.1, 11.2, 11.3	Evaluate algebraic expressions Simplify algebraic expressions Apply the distributive property Solve equations in one variable	10.5 - #1 - 63 odd 11.1 - #1 - 17 odd, 25 - 33 odd, 45 - 57 odd, 63 - 69 odd 11.2 - #1 - 27 odd 11.3 - #1 - 29 odd	
14	11.4, 11.5	Solve equations in one variable requiring at least two steps Using algebra in problem solving	11.4 - #1 - 27 odd 11.5 - #1 - 23 odd	Test #5 (Chapters 10 & 11)
15	Final Exam Review Final Exam	A certain level of proficiency is expected from students upon completion of the course. In order to help ensure this proficiency, the final examination must evaluate each student's knowledge of <u>all</u> the following topics: Addition, subtraction, multiplication and division of whole numbers, decimals, fractions, and signed numbers <u>WITHOUT USE OF A CALCULATOR.</u> Percent Ratio and Proportion Measurement for both the English and Metric System Geometry (Perimeter, area, and volume) Exponents Equations solved using two steps Interpreting charts and graphs		Cumulative Final Exam