

## Chapter Exam Review for MAT098 - Prealgebra

### Chapters 1-2: Whole Numbers and Introduction to Algebra & Integers and Introduction to Solving Equations

#### Chapters 1-2 Learning Objectives:

In chapter 1 students will:

- Determine the place value of a specified digit of a whole number
- Given whole number in words write it in standard form and visa versa
- Use a greater than or less than symbol to compare the size of numbers
- Add, subtract, multiply and divide whole numbers
- Solve word problems that involve adding, subtracting, multiplying and dividing whole numbers
- Find the perimeter of geometric figures and the area of a rectangle
- Round a given number to a specified place value
- Find an average of a given data set
- Use exponents to write a number in expanded form
- Evaluate exponential expressions
- Simplify a given expression using the order of operations
- Evaluate a given expression for specified values
- Write a verbal expression algebraically

In chapter 2 students will:

- Represent quantities with integers
- Use a greater than or less than symbol to compare the size of integer expressions
- Find the opposite of a given number
- Evaluate expressions that involve absolute values and exponents
- Order given expressions (that have integers, exponents and absolute values)
- Answer questions about graphs and tables
- Add, subtract, multiply and divide integers
- Solve word problems that involve adding, subtracting, multiplying and dividing integers
- Find the average of given integers
- Use the order of operations to simplify given expressions

**Chapter Practice Exam:**

This test (found at the end of every chapter) provides you an excellent opportunity to both practice and review for class exams. Take this test to see how much of the chapter you have mastered and retained. Do the assigned practice exam problems and check your answers with those provided at the back of the text to see whether you have correctly solved each problem; rework all problems that are incorrect. If you need to review any of these problems, simply refer back to the chapter highlights section of the chapter on pages 85-88.

**Practice Chapter Test: pp. 93-94 #1-34 all problems and pp. 157-158 #1-35 all problems**

**Chapter 1-2 Test Date and Practice Chapter Test Due Date:** \_\_\_\_\_

*Optional Additional Practice: Read Chapter Highlights on pp. 85-88  
Chapter Review (optional): pp. 88-92  
Read Chapter Highlights on pp. 150-152  
Chapter Review (optional): pp. 153-156  
Cumulative Review (optional): pp.159-160*

## Chapter 1: Whole Numbers and Introduction to Algebra

### Chapter Schedule for MAT098 –Prealgebra

#### Chapter Homework Assignments:

You learn math by doing math. The best way to learn math is to practice, practice, practice. The assigned homework examples provide you with an opportunity to practice. Be sure to complete every assigned problem (or more if you need additional practice). Check your answers to the odd-numbered problems in the back of the text to see whether you have correctly solved each problem; rework all problems that are incorrect.

<i>Date Assigned</i>	<i>Section/Topic</i>	<i>Assigned Reading</i>	<i>Assigned Problems</i>
	1.1 Tips for Success in Mathematics	pp. 2-6	<i>none</i>
	1.2 Place Value and Names for Numbers	pp. 7-10	pp. 11-14 #1-7 odds, 11-19 odds, 33-43 odds
	1.3 Adding and Subtracting Whole Numbers and Perimeter	pp. 15-24	pp. 25-29 #15, 17, 27, 29, 35, 37, 51-79 odds, 91, 95, 97
	1.4 Rounding and Estimating	pp. 30-33	pp. 34-37 #15, 17, 19, 23, 25, 33, 35, 63, 65
	1.5 Multiplying Whole Numbers and Area	pp. 38-44	pp. 45-49 #5-13 odds, 19, 21, 31, 33, 45, 47, 59, 65, 67, 69, 79, 91, 93
	1.6 Dividing Whole Numbers	pp. 50-58	pp. 59-63 #5-13 odds, 23, 25, 69, 73, 75, 79, 83, 89, 91, 95, 107-113 odds
	1.7 Exponents and Order of Operations	pp. 66-70	pp. 71-74 #3-11 odds, 17-25 odds, 45, 47, 53-93 odds
	1.8 Introduction to Variables, Algebraic Expressions and Equations	pp. 75-79	pp. 80-82 #7-21 odds, 25-35 odds, 43, 49-55 odds, 61-87 odds, 93

#### Misc. Chapter Notes:

- Perimeter of a geometric figure = the sum of all sides
- Area of a rectangle = length · width
- Area of a square = side · side

## Chapter 2: Integers and Introduction to Solving Equations

### Chapter Schedule for MAT098 –Prealgebra

#### Chapter Homework Assignments:

You learn math by doing math. The best way to learn math is to practice, practice, practice. The assigned homework examples provide you with an opportunity to practice. Be sure to complete every assigned problem (or more if you need additional practice). Check your answers to the odd-numbered problems in the back of the text to see whether you have correctly solved each problem; rework all problems that are incorrect.

<i>Date Assigned</i>	<i>Section/Topic</i>	<i>Assigned Reading</i>	<i>Assigned Problems</i>
	2.1 Introduction to Integers	pp. 95-100	pp. 101-105 #1-11 odds, 17, 21-89 odds, 101-113 odds
	2.2 Adding Integers	pp. 106-109	pp. 110-113 #11-25 odds, 37-43 odds, 59, 61, 63, 69, 73, 75, 81, 83, 95, 97
	2.3 Subtracting Integers	pp. 114-116	pp. 117-121 #1-29 odds, 43-71 odds, 77, 79, 85, 87, 99, 101, 103
	2.4 Multiplying and Dividing Integers	pp. 122-125	pp. 126-130 #1-37 odds, 43-49 odds, 59-81 odds, 85-93 odds, 99-119 odds, 123, 125, 133, 135
	2.5 Order of Operations	pp. 133-136	pp. 137-140 #1-11 odds, 19-39 odds, 51-59 odds, 69-87 odds, 93, 95
	2.6 Solving Equations	pp. 141-146	pp. 147-149 #1-55 odds

#### Misc. Chapter Notes:

## Chapter 3: Solving Equations and Problem Solving

### Chapter Exam Review for MAT098 - Prealgebra

#### Chapter Learning Objectives:

In this chapter students will:

- Identify specified terms and coefficients
- Distinguish between algebraic expressions and algebraic equations
- Simplify algebraic expressions by performing the indicated operation, distributing and combining like-terms
- Find the perimeter and area of a given geometric figure
- Determine if a given value is a solution to a given equation
- Solve a given equation and check the solution in the original equation
- Translate a given phrase (verbal model) into an algebraic expression or algebraic equation
- Solve word problems

#### Chapter Practice Exam:

This test (found at the end of every chapter) provides you an excellent opportunity to both practice and review for class exams. Take this test to see how much of the chapter you have mastered and retained. Do the assigned practice exam problems and check your answers with those provided at the back of the text to see whether you have correctly solved each problem; rework all problems that are incorrect. If you need to review any of these problems, simply refer back to the chapter highlights section of the chapter on pages 201-203.

**Practice Chapter Test: pp. 208-209 #1-21 all problems**

**Chapter Test Date and Practice Chapter Test Due Date:** \_\_\_\_\_

*Optional Additional Practice: Read Chapter Highlights on pp. 201-203  
Chapter Review (optional): pp. 204-207  
Cumulative Review (optional): pp. 210-211*

### Chapter 3: Solving Equations and Problem Solving

#### Chapter Exam Review for MAT098 - Prealgebra

#### Chapter Homework Assignments:

You learn math by doing math. The best way to learn math is to practice, practice, practice. The assigned homework examples provide you with an opportunity to practice. Be sure to complete every assigned problem (or more if you need additional practice). Check your answers to the odd-numbered problems in the back of the text to see whether you have correctly solved each problem; rework all problems that are incorrect.

<i>Date Assigned</i>	<i>Section/Topic</i>	<i>Assigned Reading</i>	<i>Assigned Problems</i>
	3.1 Simplifying Algebraic Expressions	pp. 162-167	pp. 168-172 #1-33 odds, 39, 41, 43, 63-69 odds, 73-79 odds, 103, 109
	3.2 Solving Equations	pp. 173-178	pp. 179-181 #3-29 odds, 55-69 odds, 75-89 odds
	3.3 Solving Linear Equations in One Variable	pp. 184-187	pp. 188-191 #3-11 odds, 15-21 odds, 29, 43-63 odds
	3.4 Linear Equations in One Variable and Problem Solving	pp. 192-195	pp. 196-199 #11-25 odds, 29, 31, 39, 41, 43