

CPT Test Preparation
Skills Assessment Prescription - Basic Algebra I Review

TEXT: Martin-Gay: *Prealgebra, Fifth Edition*

Basic Skills Review; Whole Numbers			
Assessment	Objectives	Review and Practice	Additional Lab Resources
1, 2	❖ Simplify expressions using the order of operations	<u>Chapter Review:</u> Ch. 1	<u>Text:</u> ❖ Chapter 1, Sections 1.1 - 1.8, Pgs. 1 - 82
3	❖ Simplify expressions with nested parenthesis	<u>Extra Practice:</u> ❖ Addition and Subtraction ❖ Multiplication ❖ Division ❖ Rounding and Estimation ❖ Order of Operations <u>Chapter Test:</u> Ch. 1	<u>CD: <i>Prealgebra #1</i></u> Chapter 1 only

Integers			
Assessment	Objectives	Review and Practice	Additional Lab Resources
4	❖ Find absolute values	<u>Chapter Review:</u> Ch. 2	<u>Text:</u> ❖ Chapter 2, Sections 2.1 - 2.5, Pgs. 95 - 140
5	❖ Add three or more integers	<u>Extra Practice:</u> ❖ Addition and Subtraction ❖ Multiplication and Division	<u>CD: <i>Prealgebra #1</i></u> Chapter 2; Sections 2.1 - 2.5
6 - 7	❖ Subtract integers		<u>Computer Tutorial Module:</u> i.exe
8	❖ Subtract three or more integers		
9	❖ Multiply three or more integers		
10	❖ Simplify powers of integers		
11	❖ Divide integers		
12 - 13	❖ Simplify expressions using the order of operations	<u>Chapter Test:</u> Ch. 2	

Skills Assessment Prescription - Basic Algebra I Review (continued)

Fraction Notation			
Assessment	Objectives	Review and Practice	Additional Lab Resources
14 - 15 16 - 17 18 19	<ul style="list-style-type: none"> ❖ Multiply or divide fractions ❖ Add or subtract fractions ❖ Subtract mixed numbers ❖ Divide mixed numbers 	<p><u>Chapter Review:</u> Ch. 4</p> <p><u>Extra Practice:</u></p> <ul style="list-style-type: none"> ❖ Factors and Multiples ❖ Divisibility ❖ Prime Factorization ❖ Simplify Fractions ❖ Multiplication and Division ❖ Addition and Subtraction ❖ Operations with Mixed Numbers <p style="text-align: center;"><u>Chapter Test:</u> Ch. 4</p>	<p><u>Text:</u></p> <ul style="list-style-type: none"> ❖ Chapter 4, Sections 4.3 - 4.5, 4.7 Pgs. 240 - 276, 287 - 303 <p><u>CD: Prealgebra #2</u> Chapter 4; Sections 4.3 - 4.5, 4.7</p>

Decimal Notation			
Assessment	Objectives	Review and Practice	Additional Lab Resources
20 21 22 23	<ul style="list-style-type: none"> ❖ Subtract decimals ❖ Multiply decimals ❖ Divide decimals ❖ Simplify expressions using the order of operations 	<p><u>Chapter Review:</u> Ch. 5</p> <p><u>Extra Practice:</u></p> <ul style="list-style-type: none"> ❖ Addition and Subtraction ❖ Multiplication and Division ❖ Converting Fractions <p style="text-align: center;"><u>Chapter Test:</u> Ch. 5</p>	<p><u>Text:</u></p> <ul style="list-style-type: none"> ❖ Chapter 5, Sections 5.1 - 5.5 Pgs. 330 - 385 <p><u>CD: Prealgebra #2</u> Chapter 5; Sections 5.1 - 5.5</p>

Skills Assessment Prescription - Basic Algebra I Review (concluded)

Solving Equations			
Assessment	Objectives	Review and Practice	Additional Lab Resources
24 25 26, 27 28 - 32 33, 34 35 - 37	<ul style="list-style-type: none"> ❖ Evaluate algebraic expressions ❖ Use the distributive laws to multiply ❖ Simplify algebraic expressions ❖ Solve equations using the addition and multiplication properties ❖ Translate verbal expressions into algebraic expressions ❖ Solve problems 	<p><u>Chapter Review:</u> Ch. 3</p> <p><u>Extra Practice:</u></p> <ul style="list-style-type: none"> ❖ Using the Distributive Laws ❖ Simplifying Expressions ❖ Solving Equations ❖ Solving Problems <p style="text-align: center;"><u>Chapter Test:</u> Ch. 3</p>	<p><u>Text:</u></p> <ul style="list-style-type: none"> ❖ Chapter 3 Pgs. 161 - 199 <p><u>CD: Prealgebra #2</u> Chapter 3 only</p> <p><u>Computer Tutorial Module:</u> equal.exe</p>

Graphs, Proportions and Percents			
Assessment	Objectives	Review and Practice	Additional Lab Resources
38, 39 40 41, 42 43, 44 45, 46 47, 48 49, 50	<ul style="list-style-type: none"> ❖ Reading graphs ❖ Rectangular coordinate system and paired data ❖ Solving proportions ❖ Percents, decimals and fractions ❖ Solving percent problems with equations ❖ Applications of percent ❖ Square roots and the Pythagorean Theorem 	<p><u>Chapter Reviews:</u> Ch. 6, 7 & 8</p> <p><u>Extra Practice:</u></p> <ul style="list-style-type: none"> ❖ Solving Proportions Problems ❖ Converting Percents ❖ Solving Percent Problems ❖ Pythagorean Theorem <p style="text-align: center;"><u>Chapter Tests:</u> Ch. 6, 7, 8</p>	<p><u>Text:</u></p> <ul style="list-style-type: none"> ❖ Chapter 6, Sections 6.2 - 6.4 Pgs. 424 - 450 ❖ Chapter 7, Sections 7.1, 7.2, 7.4 Pgs. 472 - 490, 501 - 510 ❖ Chapter 8, Section 8.1, 8.3, Pgs. 537 - 550, 559 - 568 <p><u>CD: Prealgebra #3</u> Chapter 6; Sections 6.2 - 6.4 Chapter 7; Sections 7.1, 7.2, 7.4 Chapter 8; Sections 8.1, 8.3</p>