



Mathematics

with Business Applications

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STANDARDS		PAGE REFERENCES
GRADE 9		
Standard 1: Number and Operation		
<p>Students in Grade 9 deepen their understanding of real numbers by applying properties of rational numbers and exponents and by identifying exact and approximate roots without simplification. Students use positive and negative numbers, absolute value, fractions, decimals, percentages, and scientific notation. Students use the proper order of operations and perform operations with rational numbers. Students apply number sense to everyday situations and judge reasonableness of answers.</p>		
Goal 1.1: Understand and use numbers.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.1.1.1	Apply properties of rational numbers. (347.01.b)	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
9.M.1.1.2	Use positive and negative numbers, absolute value, fractions, decimals, percentages, and scientific notation, including application in real world situations. (347.01.a)	Student Edition: 4-5, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-21, 22-23, 24-25, 26-27, 28-29, 30-31, 32-33, 58-59
9.M.1.1.3	Apply properties of exponents. (347.01.c)	Student Edition: 32 #5-#7
9.M.1.1.4	Identify exact and approximate roots without simplification.	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.

STANDARDS		PAGE REFERENCES
9.M.1.1.5	Solve problems using number theory concepts (factors, multiples, primes). (347.01.d)	Teacher Wraparound Edition: A 23
9.M.1.1.6	Use appropriate vocabulary.	Student Edition: 133 #1-#10, 157 #1-#10, 189 #1-#9, 221 #1-#13, 249 #1-#9, 273 #1-#5, 305 #1-#10, 337 #1-#10, 365 #1-#10, 385 #1-#10
Goal 1.2: Perform computations accurately.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.1.2.1	Use the order of operations and perform operations with rational numbers. (347.02.a)	Student Edition: 64-65
Goal 1.3: Estimate and judge reasonableness of results.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.1.3.1	Apply number sense to everyday situations and judge reasonableness of results. (347.03.a)	Student Edition: 50-51, 52-53, 54-55, 56-57 Teacher Wraparound Edition: A 51, 53, 55; T 54
9.M.1.3.2	Identify that error accumulates in a computation when there is rounding. (349.05.b)	<i>Rounding</i> is covered on the following pages: Student Edition: 6-7, 50-51, 86-87, 729
Standard 2: Concepts and Principles of Measurement		
Students in Grade 9 formulate and use proportions, ratios, and scaling. Students apply concepts of rates and direct and indirect measurements. Students evaluate given measurement formulas for two- and three-dimensional objects.		
Goal 2.1: Understand and use U.S. customary and metric measurements.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.2.1.1	Given the formulas, find the circumference, perimeter, or area of triangles, circles, and quadrilaterals, and the volume and surface area of rectangular prisms and cylinders. (349.01.a)	Student Edition: 472, 771, 772, 773 Teacher Wraparound Edition: A 474; ICE 474; T 473; TC 473
9.M.2.1.2	Solve problems involving circumference, perimeter, or area of triangles, circles, and rectangles.	Student Edition: 472, 771, 772, 773 Teacher Wraparound Edition: A 474; ICE 474; T 473; TC 473

STANDARDS		PAGE REFERENCES
Goal 2.2: Apply the concepts of rates, ratios, and proportions.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.2.2.1	Use rates, ratios, proportions, and map scales in problem-solving situations. (349.03.a)	Student Edition: 749, 750, 751, 752
9.M.2.2.2	Apply concepts of rates and direct and indirect measurements.	Student Edition: 48-49, 751, 758
9.M.2.2.3	Construct equivalent units, comparable units, and conversions. (349.02.a)	Student Edition: 44-45, 46-47, 764, 766, 771
Goal 2.3: Apply dimensional analysis.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.2.3.1	Use customary and metric units and their relationship to one another and to real world applications involving length, area, capacity, weight, time, and temperature. (349.04.a)	Student Edition: 44-45, 46-47, 764, 766, 771
Goal 2.4: Apply appropriate techniques and tools to determine measurements.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.2.4.1	Determine and use appropriate units. (349.01.a)	Student Edition: 44-45, 46-47, 764, 766, 771
9.M.2.4.2	Approximate error in measurement situations.	Estimation in measurement can be found on: Student Edition: 51 #22, 771 Teacher Wraparound Edition: A 51

STANDARDS		PAGE REFERENCES
Standard 3: Concepts and Language of Algebra and Functions		
Students in Grade 9 use appropriate procedures for manipulating and simplifying algebraic expressions involving variables, integers, rational numbers, and for solving multi-step, first-degree equations and inequalities. Students understand the concept and applications of functions and mathematical models. Given graphs, charts, ordered pairs, mappings, or equations, students determine whether a relation is a function. Students evaluate functions written in functional notation and, given a function, students identify domain and range.		
Goal 3.1: Use algebraic symbolism as a tool to represent mathematical relationships.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.3.1.1	Represent mathematical relationships using variables, expressions, linear equations and inequalities. (350.01.a)	Student Edition: 74-75, 78-79, 80-81 Teacher Wraparound Edition: A 75, 79; T 74, 78; WU 79
Goal 3.2: Evaluate algebraic expressions.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.3.2.1	Use appropriate procedures for manipulating and simplifying algebraic expressions involving variables, integers, and rational numbers. (350.02.a)	Student Edition: 74-75, 78-79, 80-81 Teacher Wraparound Edition: A 75, 79; T 74, 78; WU 79
Goal 3.3: Solve algebraic equations and inequalities.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.3.3.1	Use appropriate procedures to solve multi-step, first-degree equations and inequalities; such as $3(2x - 5) = 5x + 7$ or $3(2x - 5) > 5x + 7$. (350.03.a)	Student Edition: 74-75, 78-79 Teacher Wraparound Edition: A 75, 79; T 74, 78
9.M.3.3.2	Differentiate between linear and non-linear equations and graphs.	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
Goal 3.4: Solve simple linear systems of equations.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.3.4.1	Use appropriate procedures to solve linear systems of equations involving two variables; such as $x + y = 7$ and $2x + 3y = 21$. (350.04.a)	Student Edition: 78-79 Teacher Wraparound Edition: A 79; T 78

STANDARDS		PAGE REFERENCES
Goal 3.5: Understand the concept of functions.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.3.5.1	Given graphs, charts, ordered pairs, mappings, or equations, determine whether a relation is a function.	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
9.M.3.5.2	Evaluate functions written in functional notation.	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
9.M.3.5.3	Given a function, identify domain and range.	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
Goal 3.6: Apply functions to a variety of problems.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.3.6.1	Model and solve real-world phenomena using multi-step, first degree, single variable equations and inequalities, linear equations, and two-variable linear systems of equations. (353.01.a)	Student Edition: 74-75, 78-79, 80-81 Teacher Wraparound Edition: A 75, 79; T 74, 78; WU 79
9.M.3.6.2	Use graphs and sequences to represent and solve problems. (347.02.b)	Student Edition: 70-71 Teacher Wraparound Edition: A 71; T 70
<u>Standard 4: Concepts and Principles of Geometry</u>		
Students in Grade 9 represent linear relationships using tables, graphs, and mathematical symbols. Students interpret attributes of linear relationships such as slope, rate of change, and intercepts.		
Goal 4.1: Apply concepts of size, shape, and spatial relationships.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.4.1.1	Recognize congruency and similarity of two-dimensional figures. (351.01.a)	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
9.M.4.1.2	Recognize similarity as it relates to size variations in two-dimensional objects. (351.01.b)	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.

STANDARDS		PAGE REFERENCES
Goal 4.2: Apply the geometry of right triangles.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.4.2.1	Given the Pythagorean Theorem, calculate a missing side length of a right triangle where the legs and hypotenuse are natural numbers. (351.02.c)	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
Goal 4.3: Apply graphing in two dimensions.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.4.3.1	Identify attributes of the Cartesian Coordinate System, such as quadrants, origin, and axes. (351.03.a)	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
9.M.4.3.2	Graph scatter plots and identify informal trend lines (e.g., eyeball fit lines).	Student Edition: 558-560 Teacher Wraparound Edition: C 560; ICE 559
9.M.4.3.3	Identify positive and negative correlations.	Student Edition: 558-560 Teacher Wraparound Edition: C 560; ICE 559
Goal 4.4: Represent and graph linear relationships.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.4.4.1	Create graphs and equations for linear relationships.	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
9.M.4.4.2	Represent linear relationships using tables, graphs, and mathematical symbols.	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
9.M.4.4.3	Interpret attributes of linear relationships such as slope, rate of change, and intercepts.	Student Edition: 41 #11-#16, 237-238

STANDARDS		PAGE REFERENCES
Standard 5: Data Analysis, Probability, and Statistics		
Students in Grade 9 interpret and use basic statistical concepts including mean, median, mode, range, and distribution of data, including outliers. Students make predictions and draw conclusions based on statistical measures and students make predictions based on randomness, chance, equally likely events, and probability. Students find probabilities based on dependent, independent, and compound events and students make predictions based on randomness, chance, equally likely events, and probability.		
Goal 5.1: Represent data with a variety of formats.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.5.1.1	Analyze and interpret tables, charts, and graphs, including scatter plots, broken line graphs, and box-and-whisker plots. (352.01.a)	Student Edition: 42-43, 558-560 Teacher Wraparound Edition: A 43; C 560; ICE 559; T 42
Goal 5.2: Collect, organize, and display data.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.5.2.1	Collect, organize, and display data in tables, charts, and graphs. (352.02.a)	Student Edition: 40-41, 42-43, 767, 768, 769 Teacher Wraparound Edition: A 41, 43; T 40, 42
Goal 5.3: Apply simple statistical measurements.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.5.3.1	Interpret and use basic statistical concepts, including mean, median, mode, range, and distribution of data, including outliers. (352.03.a)	Student Edition: 770
9.M.5.3.2	Make predictions and draw conclusions based on statistical measures. (352.05.a)	Student Edition: 38-39, 40-41, 558-560, 768, 769 Teacher Wraparound Edition: A 39, 41; C 560; ICE 559; T 40
Goal 5.4: Understand basic concepts of probability.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.5.4.1	Find probabilities based on dependent, independent, and compound events.	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.

STANDARDS		PAGE REFERENCES
9.M.5.4.2	Contrast experimental and theoretical probability. (352.04.a)	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
Goal 5.5: Make predictions or decisions based on data.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.5.5.1	Make predictions based on randomness, chance, equally likely events, and probability. (352.04.c)	Student Edition: 38-39, 40-41, 558-560, 768, 769 Teacher Wraparound Edition: A 39, 41; C 560; ICE 559; T 40
9.M.5.5.2	Use appropriate tools/technology to conduct simulations and employ graphical models to make predictions or decisions based on data. (352.05.a)	Student Edition: 38-39, 40-41, 558-560, 768, 769 Teacher Wraparound Edition: A 39, 41; C 560; ICE 559; T 40
9.M.5.5.3	Design, conduct, and interpret results of statistical experiments. (352.05.b)	Student Edition: 38-39, 40-41, 558-560, 768, 769 Teacher Wraparound Edition: A 39, 41; C 560; ICE 559; T 40
GRADE 10		
Standard 1: Number and Operation		
Students in Grade 10 deepen their understanding of real numbers by applying properties of rational numbers and exponents and by identifying exact and approximate roots without simplification. Students use positive and negative numbers, absolute value, fractions, decimals, percentages, and scientific notation. Students use the proper order of operations and perform operations with rational numbers. Students apply number sense to everyday situations and judge reasonableness of answers.		
Goal 1.1: Understand and use numbers.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.1.1.1	Apply properties of rational numbers. (347.01.b)	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
10.M.1.1.2	Use positive and negative numbers, absolute value, fractions, decimals, percentages, and scientific notation, including application in real world situations. (347.01.a)	Student Edition: 4-5, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-21, 22-23, 24-25, 26-27, 28-29, 30-31, 32-33, 58-59

STANDARDS		PAGE REFERENCES
10.M.1.1.3	Apply properties of exponents. (347.01.c)	Student Edition: 32 #5-#7
10.M.1.1.4	Identify exact and approximate roots without simplification.	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
10.M.1.1.5	Solve problems using number theory concepts (factors, multiples, primes). (347.01.d)	Teacher Wraparound Edition: A 23
10.M.1.1.6	Use appropriate vocabulary.	Student Edition: 133 #1-#10, 157 #1-#10, 189 #1-#9, 221 #1-#13, 249 #1-#9, 273 #1-#5, 305 #1-#10, 337 #1-#10, 365 #1-#10, 385 #1-#10
Goal 1.2: Perform computations accurately.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.1.2.1	Use the order of operations and perform operations with rational numbers. (347.02.a)	Student Edition: 64-65
Goal 1.3: Estimate and judge reasonableness of results.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.1.3.1	Apply number sense to everyday situations and judge reasonableness of results. (347.03.a)	Student Edition: 50-51, 52-53, 54-55, 56-57 Teacher Wraparound Edition: A 51, 53, 55; T 54
10.M.1.3.2	Identify that error accumulates in a computation when there is rounding. (349.05.b)	<i>Rounding</i> is covered on the following pages: Student Edition: 6-7, 50-51, 86-87, 729

STANDARDS		PAGE REFERENCES
Standard 2: Concepts and Principles of Measurement		
Students in Grade 10, given relative formulas, determine length, distance, area, surface area, capacity, and weight, with appropriate unit labels. Students formulate and use proportions, ratios, and scaling. Students apply concepts of rates and direct and indirect measurements. Students evaluate given measurement formulas for two- and three- dimensional objects.		
Goal 2.1: Understand and use U.S. customary and metric measurements.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.2.1.1	Given the formulas, find the circumference, perimeter, or area of triangles, circles, and quadrilaterals, the volume of spheres, non-oblique prisms, cylinders, and cones, and the surface area of spheres, non-oblique prisms, cylinders, and right square-based pyramids. (349.01.a)	Student Edition: 472, 771, 772, 773 Teacher Wraparound Edition: A 474; ICE 474; T 473; TC 473
10.M.2.1.2	Solve problems involving circumference, perimeter, or area of triangles, circles, and rectangles.	Student Edition: 472, 771, 772, 773 Teacher Wraparound Edition: A 474; ICE 474; T 473; TC 473
Goal 2.2: Apply the concepts of rates, ratios, and proportions.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.2.2.1	Use rates, ratios, proportions, map scales, and scale factors (one- and two-dimensional) in problem-solving situations. (349.03.a)	Student Edition: 749, 750, 751, 752
10.M.2.2.2	Apply concepts of rates and direct and indirect measurements.	Student Edition: 48-49, 751, 758
10.M.2.2.3	Construct equivalent units, comparable units, and conversions. (349.02.a)	Student Edition: 44-45, 46-47, 764, 766, 771
Goal 2.3: Apply dimensional analysis.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.2.3.1	Use customary and metric units and their relationship to one another and to real world applications involving length, area, capacity, weight, time, and temperature. (349.04.a)	Student Edition: 44-45, 46-47, 764, 766, 771

STANDARDS		PAGE REFERENCES
Goal 2.4: Apply appropriate techniques and tools to determine measurements.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.2.4.1	Determine and use appropriate units. (349.01.a)	Student Edition: 44-45, 46-47, 764, 766, 771
10.M.2.4.2	Approximate error in measurement situations.	Estimation in measurement can be found on: Student Edition: 51 #22, 771 Teacher Wraparound Edition: A 51
Standard 3: Concepts and Language of Algebra and Functions		
Students in Grade 10 use appropriate procedures for manipulating and simplifying algebraic expressions involving variables, integers, rational numbers, and for solving multi-step, first-degree equations and inequalities. Students understand the concept and applications of functions and mathematical models. Given graphs, charts, ordered pairs, mappings, or equations, students determine whether a relation is a function. Students evaluate functions written in functional notation and, given a function, students identify domain and range.		
Goal 3.1: Use algebraic symbolism as a tool to represent mathematical relationships.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.3.1.1	Represent mathematical relationships using variables, expressions, linear equations and inequalities. (350.01.a)	Student Edition: 74-75, 78-79, 80-81 Teacher Wraparound Edition: A 75, 79; T 74, 78; WU 79
Goal 3.2: Evaluate algebraic expressions.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.3.2.1	Use appropriate procedures for manipulating and simplifying algebraic expressions involving variables, integers, and rational numbers. (350.02.a)	Student Edition: 74-75, 78-79, 80-81 Teacher Wraparound Edition: A 75, 79; T 74, 78; WU 79
Goal 3.3: Solve algebraic equations and inequalities.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.3.3.1	Use appropriate procedures to solve multi-step, first-degree equations and inequalities; such as $3(2x - 5) = 5x + 7$ or $3(2x - 5) > 5x + 7$. (350.03.a)	Student Edition: 74-75, 78-79 Teacher Wraparound Edition: A 75, 79; T 74, 78

STANDARDS		PAGE REFERENCES
10.M.3.3.2	Differentiate between linear and non-linear equations and graphs.	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
Goal 3.4: Solve simple linear systems of equations.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.3.4.1	Use appropriate procedures to solve linear systems of equations involving two variables; such as $x + y = 7$ and $2x + 3y = 21$. (350.04.a)	Student Edition: 78-79 Teacher Wraparound Edition: A 79; T 78
Goal 3.5: Understand the concept of functions.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.3.5.1	Given graphs, charts, ordered pairs, mappings, or equations, determine whether a relation is a function.	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
10.M.3.5.2	Evaluate functions written in functional notation.	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
10.M.3.5.3	Given a function, identify domain and range.	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
Goal 3.6: Apply functions to a variety of problems.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.3.6.1	Model and solve real-world phenomena using multi-step, first degree, single variable equations and inequalities, linear equations, and two-variable linear systems of equations. (353.01.a)	Student Edition: 74-75, 78-79, 80-81 Teacher Wraparound Edition: A 75, 79; T 74, 78; WU 79
10.M.3.6.2	Use graphs and sequences to represent and solve problems. (347.02.b)	Student Edition: 70-71 Teacher Wraparound Edition: A 71; T 70

STANDARDS		PAGE REFERENCES
Standard 4: Concepts and Principles of Geometry		
Students in Grade 10 recognize congruency and similarity of two-dimensional figures. Students identify and use similarity as it relates to size variations in two- and three-dimensional objects. Given the Pythagorean Theorem, students calculate missing side lengths of right triangles without simplifying radicals. Students represent linear relationships using tables, graphs, and mathematical symbols. Students interpret attributes of linear relationships such as slope, rate of change, and intercepts. Students use logic to make and evaluate mathematical arguments.		
Goal 4.1: Apply concepts of size, shape, and spatial relationships.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.4.1.1	Recognize and apply congruency and similarity of two-dimensional figures. (351.01.a)	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
10.M.4.1.2	Recognize and use similarity as it relates to size variations in two- and three-dimensional objects. (351.01.b)	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
Goal 4.2: Apply the geometry of right triangles.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.4.2.1	Given the Pythagorean Theorem, calculate missing side lengths of right triangles without simplifying radicals. (351.02.c)	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
Goal 4.3: Apply graphing in two dimensions.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.4.3.1	Identify attributes of the Cartesian Coordinate System, such as quadrants, origin, and axes. (351.03.a)	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
10.M.4.3.2	Graph scatter plots and identify informal trend lines (e.g., eyeball fit lines).	Student Edition: 558-560 Teacher Wraparound Edition: C 560; ICE 559
10.M.4.3.3	Identify positive and negative correlations.	Student Edition: 558-560 Teacher Wraparound Edition: C 560; ICE 559

STANDARDS		PAGE REFERENCES
Goal 4.4: Represent and graph linear relationships.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.4.4.1	Create graphs and equations for linear relationships.	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
10.M.4.4.2	Represent linear relationships using tables, graphs, and mathematical symbols.	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
10.M.4.4.3	Interpret attributes of linear relationships such as slope, rate of change, and intercepts.	Student Edition: 41 #11-#16, 237-238
Goal 4.5: Use reasoning skills.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.4.5.1	Use logic to make and evaluate mathematical arguments. (348.02.b)	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
<u>Standard 5: Data Analysis, Probability, and Statistics</u>		
Students in Grade 10 read, interpret, and use tables, charts, and graphs, including scatter plots, multiple broken line graphs, and box-and-whisker plots. Students interpret and use basic statistical concepts including mean, median, mode, range, and distribution of data, including outliers. Students make predictions and draw conclusions based on statistical measures and students make predictions based on randomness, chance, equally likely events, and probability. Students find probabilities based on dependent, independent, and compound events and students make predictions based on randomness, chance, equally likely events, and probability.		
Goal 5.1: Represent data with a variety of formats.		
Objective(s): By the end of Grade 10, the student will be able to:		
9.M.5.1.1	Analyze and interpret tables, charts, and graphs, including scatter plots, broken line graphs, and box-and-whisker plots. (352.01.a)	Student Edition: 42-43, 558-560 Teacher Wraparound Edition: A 43; C 560; ICE 559; T 42

STANDARDS		PAGE REFERENCES
Goal 5.2: Collect, organize, and display data.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.5.2.1	Collect, organize, and display data in tables, charts, and graphs. (352.02.a)	Student Edition: 40-41, 42-43, 767, 768, 769 Teacher Wraparound Edition: A 41, 43; T 40, 42
Goal 5.3: Apply simple statistical measurements.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.5.3.1	Interpret and use basic statistical concepts, including mean, median, mode, range, and distribution of data, including outliers. (352.03.a)	Student Edition: 770
10.M.5.3.2	Make predictions and draw conclusions based on statistical measures. (352.05.a)	Student Edition: 38-39, 40-41, 558-560, 768, 769 Teacher Wraparound Edition: A 39, 41; C 560; ICE 559; T 40
Goal 5.4: Understand basic concepts of probability.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.5.4.1	Find probabilities based on dependent, independent, and compound events.	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
10.M.5.4.2	Contrast experimental and theoretical probability. (352.04.a)	This mathematics standard falls outside the scope of <i>Mathematics with Business Applications</i> © 2006. See another Glencoe high school Mathematics text.
Goal 5.5: Make predictions or decisions based on data.		
Objective(s): By the end of Grade 10, the student will be able to:		
10.M.5.5.1	Make predictions based on randomness, chance, equally likely events, and probability. (352.04.c)	Student Edition: 38-39, 40-41, 558-560, 768, 769 Teacher Wraparound Edition: A 39, 41; C 560; ICE 559; T 40

STANDARDS		PAGE REFERENCES
10.M.5.5.2	Use appropriate tools/technology to conduct simulations and employ graphical models to make predictions or decisions based on data. (352.05.a)	Student Edition: 38-39, 40-41, 558-560, 768, 769 Teacher Wraparound Edition: A 39, 41; C 560; ICE 559; T 40
10.M.5.5.3	Design, conduct, and interpret results of statistical experiments. (352.05.b)	Student Edition: 38-39, 40-41, 558-560, 768, 769 Teacher Wraparound Edition: A 39, 41; C 560; ICE 559; T 40