

State Correlation Report: Illinois

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Grade: Eighth
Subject: MathDate: 8/20/2008
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Generated by: Jeff Hunt

Strand Key	Description	Learning Activities	Lesson Quizzes
8.6.8.01	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6A: Representations and Ordering. Read, Write, and Represent Numbers Objective 6.8.01: Read, write, and recognize equivalent representations of integer powers of 10.	AL010 AL046 AL109 76242 76243 M8087 M8088 M8089 M8090 M8091 M8092 8062 8104 8063 8105 8108	AL-2A10 AL-2E01 AL-2K02 MA07ZZ27 MA08ZZ12 MA08ZZ24 MA08ZZ25
8.6.8.02	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6A: Representations and Ordering. Read, Write, and Represent Numbers Objective 6.8.02: Read, write, recognize, model, and interpret integers, including translating numerical expressions.	AL002 AL004 AL005 AL108 76237 76238 76260 76261 8120	AL-2A02 AL-2A04 AL-2A05 AL-2K01 MA07ZZ23 MA07ZZ24 MA07ZZ37 MA07ZZ38 MA08ZZ06
8.6.8.03	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6A: Representations and Ordering. Read, Write, and Represent Numbers Objective 6.8.03: Recognize, translate between, and apply multiple representations of rational numbers (decimals, fractions, mixed numbers, percents, and roots).	AL021 AL022 AL038 AL039 AL085 AL108 AL110 M7051 M7052 M7053 M7054 M7055 M7056 76237 76238 76239 76245 76246 76250 76251 76252 M8063 M8064 M8065 M8066 M8067 M8068 8065 8107 8108 8067 8068 8115 8116 8117 8119	AL-2B09 AL-2B10 AL-2D02 AL-2D03 AL-2H10 AL-2K01 AL-2K03 MA07ZZ23 MA07ZZ24 MA07ZZ29 MA07ZZ30 MA07ZZ32 MA07ZZ33 MA07ZZ34 MA08ZZ12 MA08ZZ27 MA08ZZ28 MA08ZZ32 MA08ZZ33 MA08ZZ34 MA08ZZ38 MA08ZZ47
8.6.8.04	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication,	AL048 AL049 M7007 M7008 M7009	AL-2E03 AL-2E04

	division), patterns, ratios and proportions. Standard 6A: Representations and Ordering. Read, Write, and Represent Numbers Objective 6.8.04: Use scientific notation to represent numbers and solve problems.	M7010 M7011 M7012 M7013 M7014 M8001 M8002 8105	MA08ZZ25
8.6.8.05	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6A: Representations and Ordering. Read, Write, and Represent Numbers Objective 6.8.05: Represent repeated factors using exponents.	AL010 AL018 AL046 AL059 AL064 M7001 M7002 M7003 M7004 M7005 M7006 76233 76234 76242 76243 8062 8104 8105 8108	AL-2A10 AL-2B06 AL-2E01 AL-2F02 AL-2F07 MA07ZZ22 MA07ZZ27 MA08ZZ12 MA08ZZ24 MA08ZZ25
8.6.8.06	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6A: Representations and Ordering. Order and Compare Numbers Objective 6.8.06: Order and compare rational numbers.	AL108 76237 76238 76239 76245 76246 M8023 M8024 M8025 M8026 M8027 M8028 8065 8107	AL-2K01 MA07ZZ23 MA07ZZ24 MA07ZZ29 MA07ZZ30 MA08ZZ38
8.6.8.07	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6A: Representations and Ordering. Number Line Objective 6.8.07: Identify and locate rational and irrational numbers (e.g., pi, the square root of 2, the square root of 5) on a number line.	AL013 AL014 AL021 AL022 AL034 AL108 AL110 AL115 AL116 76237 76238 76239 76245 76246 76262 76264 M8003 M8004 M8171 M8172 8059 8065 8107 8066 8108 8122	AL-2B01 AL-2B02 AL-2B09 AL-2B10 AL-2C10 AL-2K01 AL-2K03 AL-2K08 AL-2K09 MA07ZZ23 MA07ZZ24 MA07ZZ29 MA07ZZ30 MA07ZZ39 MA08ZZ12 MA08ZZ13 MA08ZZ21 MA08ZZ38
8.6.8.08	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6A: Representations and Ordering. Classifications of Numbers Objective 6.8.08: Solve problems involving descriptions of numbers, including characteristics and relationships (e.g., exponents, roots, prime/composite, prime factorization, greatest common factor, least common multiple).	AL010 AL018 AL021 AL022 AL046 AL058 AL059 AL076 AL079 AL080 AL081 AL110 M7001 M7002 M7003 M7004 M7005 M7006 M7035 M7036 M7037 M7038 M7039 M7040 M7041 M7042 M7043 M7044 M7045 M7046 M7047 M7048 76233	AL-2A10 AL-2B06 AL-2B09 AL-2B10 AL-2E01 AL-2F01 AL-2F02 AL-2H01 AL-2H04 AL-2H05 AL-2H06 AL-2K03 MA07ZZ17 MA07ZZ22

		76234 76235 76236 76242 76243 8062 8104 8105 8108 8069 8111	MA07ZZ27 MA08ZZ12 MA08ZZ24 MA08ZZ25 MA08ZZ29
8.6.8.09	<p>State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions.</p> <p>Standard 6B 6C: Computation, Operations, Estimation, and Properties. Number Operations</p> <p>Objective 6.8.09: Solve problems and number sentences involving addition, subtraction, multiplication, and division using rational numbers, exponents, and roots.</p>	AL001 AL006 AL007 AL010 AL015 AL021 AL022 AL046 AL108 AL110 M7001 M7002 M7003 M7004 M7005 M7006 M7085 M7086 M7087 M7088 M7089 M7090 M7091 M7092 M7093 M7094 M7095 M7096 76229 76237 76238 76239 76242 76243 76245 76246 76247 M8087 M8088 M8089 M8090 M8091 M8092 8102 8062 8104 8105 8065 8107 8108 8078 8120	AL-2A01 AL-2A06 AL-2A07 AL-2A10 AL-2B03 AL-2B09 AL-2B10 AL-2E01 AL-2K01 AL-2K03 MA07ZZ20 MA07ZZ23 MA07ZZ24 MA07ZZ27 MA07ZZ29 MA07ZZ30 MA08ZZ06 MA08ZZ12 MA08ZZ22 MA08ZZ24 MA08ZZ25 MA08ZZ38
8.6.8.10	<p>State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions.</p> <p>Standard 6B 6C: Computation, Operations, Estimation, and Properties. Number Operations</p> <p>Objective 6.8.10: Identify and apply order of operations to simplify numeric expressions involving integers (including exponents and roots), fractions, and decimals.</p>	AL004 AL005 AL010 AL021 AL022 AL023 AL154 AL046 AL085 AL108 AL110 AL115 M7001 M7002 M7003 M7004 M7005 M7006 76237 76238 76242 76243 76250 76260 76261 M8033 M8034 M8035 M8036 M8037 M8038 8062 8104 8105 8108 8109 8119 8120 8079 8121	AL-2A04 AL-2A05 AL-2A10 AL-2B09 AL-2B10 AL-2B11 AL-2E01 AL-2H10 AL-2K01 AL-2K03 AL-2K08 MA07ZZ23 MA07ZZ24 MA07ZZ27 MA07ZZ32 MA07ZZ37 MA07ZZ38 MA08ZZ01 MA08ZZ06 MA08ZZ12 MA08ZZ24 MA08ZZ25 MA08ZZ27 MA08ZZ47
8.6.8.11.a	<p>State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration</p>	AL013 AL014 AL015 AL016 8065 8107	AL-2B01 AL-2B02

	and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6B 6C: Computation, Operations, Estimation, and Properties. Properties Objective 6.8.11: Identify and apply the following properties of operations with rational numbers: the commutative and associative properties for addition and multiplication;		AL-2B03 AL-2B04 MA08ZZ38
8.6.8.11.b	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6B 6C: Computation, Operations, Estimation, and Properties. Properties Objective 6.8.11: Identify and apply the following properties of operations with rational numbers: the distributive property;	AL017 AL018 AL154 76242 8065 8107	AL-2B05 AL-2B06 MA07ZZ27 MA08ZZ38
8.6.8.11.c	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6B 6C: Computation, Operations, Estimation, and Properties. Properties Objective 6.8.11: Identify and apply the following properties of operations with rational numbers: the additive and multiplicative identity properties;	AL020 AL028 M7079 M7080 M7081 M7082 M7083 M7084 8065 8107	AL-2B08 AL-2C04 MA08ZZ38
8.6.8.11.d	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6B 6C: Computation, Operations, Estimation, and Properties. Properties Objective 6.8.11: Identify and apply the following properties of operations with rational numbers: the additive and multiplicative inverse properties; and	AL014 AL020 AL028 AL030 AL037 AL083 M7079 M7080 M7081 M7082 M7083 M7084 76253 76254 76255 8107 8120 8121	AL-2B02 AL-2B08 AL-2C04 AL-2C06 AL-2D01 AL-2H08 MA07ZZ35 MA07ZZ36 MA08ZZ01 MA08ZZ06 MA08ZZ38
8.6.8.11.e	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6B 6C: Computation, Operations, Estimation, and Properties. Properties Objective 6.8.11: Identify and apply the following properties of operations with rational numbers: the multiplicative property of zero.	AL006 AL013 AL014 AL015 AL016 AL017 AL019 AL064 M8031 M8032 8107	AL-2A06 AL-2B01 AL-2B02 AL-2B03 AL-2B04 AL-2B05 AL-2B07 AL-2F07 MA08ZZ38
8.6.8.12.a	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6B 6C: Computation, Operations, Estimation, and Properties. Properties Objective 6.8.12: Describe the effect of multiplying and dividing by numbers, including the effect of multiplying or dividing a rational number by: a number less than zero;	AL004 AL005 AL006 AL007 76229 76241 76245 76246 76247 M8075 M8076 M8077 M8078 M8079 M8080 8059 8101 8102 8061 8103 8062 8104 8065 8107 8068	AL-2A04 AL-2A05 AL-2A06 AL-2A07 MA07ZZ20 MA07ZZ26 MA07ZZ29 MA07ZZ30 MA08ZZ06

		8110 8078 8120 8122	MA08ZZ13 MA08ZZ21 MA08ZZ22 MA08ZZ23 MA08ZZ24 MA08ZZ28 MA08ZZ38
8.6.8.12.b	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6B 6C: Computation, Operations, Estimation, and Properties. Properties Objective 6.8.12: Describe the effect of multiplying and dividing by numbers, including the effect of multiplying or dividing a rational number by: zero;	AL006 AL019 AL064 76245 76246 76247 8065 8107	AL-2A06 AL-2B07 AL-2F07 MA07ZZ29 MA07ZZ30 MA08ZZ38
8.6.8.12.c	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6B 6C: Computation, Operations, Estimation, and Properties. Properties Objective 6.8.12: Describe the effect of multiplying and dividing by numbers, including the effect of multiplying or dividing a rational number by: a number between zero and one; and	AL006 AL007 AL078 AL166 AL167 AL108 76229 76237 76238 76239 76245 76246 76247 76253 76254 76255 M8075 M8076 M8077 M8078 M8079 M8080 8102 8065 8107 8067 8109 8110 8078 8120	AL-2A06 AL-2A07 AL-2H03 AL-2K01 MA07ZZ20 MA07ZZ23 MA07ZZ24 MA07ZZ29 MA07ZZ30 MA07ZZ35 MA07ZZ36 MA08ZZ06 MA08ZZ22 MA08ZZ27 MA08ZZ28 MA08ZZ38
8.6.8.12.d	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6B 6C: Computation, Operations, Estimation, and Properties. Properties Objective 6.8.12: Describe the effect of multiplying and dividing by numbers, including the effect of multiplying or dividing a rational number by: a number greater than one.	AL006 AL007 AL108 76229 76237 76238 76239 76245 76246 76247 8102 8065 8107 8078 8120	AL-2A06 AL-2A07 AL-2K01 MA07ZZ20 MA07ZZ23 MA07ZZ24 MA07ZZ29 MA07ZZ30 MA08ZZ06 MA08ZZ22 MA08ZZ38
8.6.8.13	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6B 6C: Computation, Operations, Estimation, and Properties. Estimation Objective 6.8.13: Select, use, and justify appropriate operations, methods, and tools to compute or estimate with rational numbers. Verify solutions and determine the reasonableness of results.	AL155 AL036 AL157 AL043 AL159 AL167 AL108 M7033 M7034 76231 76232 76237 76238 76239 76245 76246 76248 76249 M8029 M8030 M8063 M8064 M8065 M8066 M8067 M8068 8065	AL-2C12 AL-2D07 AL-2K01 MA07ZZ14 MA07ZZ23 MA07ZZ24 MA07ZZ29 MA07ZZ30 MA07ZZ31 MA08ZZ30

		8107 8070 8112	MA08ZZ38
8.6.8.14	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6B 6C: Computation, Operations, Estimation, and Properties. Estimation Objective 6.8.14: Estimate the square or cube root of a number less than 1,000 between two whole numbers (e.g., the cubed root of 200 is between 5 and 6).	AL021 AL022 AL110 AL116 76231 76232 76237 M8017 M8018 M8019 M8020 M8021 M8022 M8029 M8030 8066 8108 8112 8119	AL-2B09 AL-2B10 AL-2K03 AL-2K09 MA07ZZ14 MA07ZZ23 MA08ZZ12 MA08ZZ30 MA08ZZ47
8.6.8.15	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6D: Ratios, Proportions, and Percents. Identify and Express Ratios Objective 6.8.15: Use ratios to describe problem situations.	AL044 M7059 M7060 76256 76257 76258 76259 8076 8118	AL-2D08 MA07ZZ01 MA07ZZ06 MA08ZZ35
8.6.8.16	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6D: Ratios, Proportions, and Percents. Proportional Reasoning Objective 6.8.16: Use proportional reasoning to model and solve problems.	AL043 AL044 AL045 AL082 AL166 AL167 76256 76257 76258 76259 M8057 M8058 M8059 M8060 M8061 M8062 M8165 M8166 M8167 M8168 M8169 M8170 8073 8115 8074 8116 8075 8117 8076 8118	AL-2D07 AL-2D08 AL-2D09 AL-2H07 MA07ZZ01 MA07ZZ06 MA08ZZ32 MA08ZZ33 MA08ZZ34 MA08ZZ35
8.6.8.17	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6D: Ratios, Proportions, and Percents. Percents Objective 6.8.17: Read, write, recognize, model, and interpret percents, including those less than 1% and greater than 100%.	AL038 AL039 8115 8116 8117	AL-2D02 AL-2D03 MA08ZZ32 MA08ZZ33 MA08ZZ34
8.6.8.18	State Goal 6: Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions. Standard 6D: Ratios, Proportions, and Percents. Percents Objective 6.8.18: Solve number sentences and problems involving fractions, decimals, and percents (e.g., percent increase and decrease, interest rates, tax, discounts, tips).	AL001 AL038 AL039 AL042 AL085 AL108 M7061 M7062 M7063 M7064 M7065 M7066 M7067 M7068 M7069 M7070 M7071 M7072 76250 76258 76259 8115 8074 8116 8117 8119	AL-2A01 AL-2D02 AL-2D03 AL-2D06 AL-2H10 AL-2K01 MA07ZZ06 MA07ZZ32 MA08ZZ32 MA08ZZ33 MA08ZZ34 MA08ZZ47
8.7.8.01	State Goal 7: Measurement: Estimate, make and use measurements of objects, quantities and relationships and determine acceptable levels of accuracy. Standard 7A 7B 7C: Units, Tools, Estimation, and	AL011 M7207 M7208 M7209 M7210 M7211 M7212 76268	AL-2A11 MA07ZZ42 MA08ZZ17

	Applications. Measurement Tools Objective 7.8.01: Select and use appropriate standard units and tools to solve measurement problems, including measurements of polygons and circles.	M8179 M8180 M8181 M8182 M8183 M8184 M8185 M8186 8084 8126 8087 8129	MA08ZZ37
8.7.8.02	State Goal 7: Measurement: Estimate, make and use measurements of objects, quantities and relationships and determine acceptable levels of accuracy. Standard 7A 7B 7C: Units, Tools, Estimation, and Applications. Area , Perimeter, and Circumference Objective 7.8.02: Solve problems involving perimeter/circumference and area of polygons, circles, and composite figures using diagrams, models, and grids or by measuring or using given formulas (may include sketching a figure from its description).	AL011 AL024 AL155 AL157 M7141 M7142 M7143 M7144 76268 76272 76273 76274 76275 76294 8084 8126 8086 8128 8087 8129 8142	AL-2A11 AL-2B12 MA07ZZ08 MA07ZZ42 MA07ZZ43 MA07ZZ44 MA07ZZ52 MA08ZZ16 MA08ZZ17 MA08ZZ37 MA08ZZ45
8.7.8.03	State Goal 7: Measurement: Estimate, make and use measurements of objects, quantities and relationships and determine acceptable levels of accuracy. Standard 7A 7B 7C: Units, Tools, Estimation, and Applications. Estimation Objective 7.8.03: Compare and estimate length (including perimeter/circumference), area, volume, weight/mass, and angles (0° to 360°) using referents.	M7207 M7208 M7209 M7210 M7211 M7212 76273 76294 M8029 M8030 M8179 M8180 8127 8128 8087 8129 8142	MA07ZZ44 MA07ZZ52 MA08ZZ14 MA08ZZ16 MA08ZZ17 MA08ZZ45
8.7.8.04	State Goal 7: Measurement: Estimate, make and use measurements of objects, quantities and relationships and determine acceptable levels of accuracy. Standard 7A 7B 7C: Units, Tools, Estimation, and Applications. Volume and Surface Area Objective 7.8.04: Solve problems involving the volume or surface area of a right rectangular prism, right circular cylinder, or composite shape using an appropriate formula or strategy.	M7173 M7174 M7175 M7176 M7177 M7178 M7179 M7180 M7181 M7182 M7183 M7184 76274 76275 M8145 M8146 M8147 M8148 M8149 M8150 M8151 M8152 M8165 M8166 M8167 M8168 M8169 M8170 8088 8086 8087 8129 8089 8090 8091	MA07ZZ08 MA08ZZ07 MA08ZZ09 MA08ZZ16 MA08ZZ17 MA08ZZ18 MA08ZZ19
8.7.8.05	State Goal 7: Measurement: Estimate, make and use measurements of objects, quantities and relationships and determine acceptable levels of accuracy. Standard 7A 7B 7C: Units, Tools, Estimation, and Applications. Measurement Conversions Objective 7.8.05: Solve problems involving unit conversions within the same measurement system for length, weight/mass, capacity, square units, and measures expressed as rates (e.g., converting feet/second to yards/minute).	M7049 M7050 M7199 M7200 M7219 M7220 M7221 M7222 M7223 M7224 76276 76277 76278 76279 8076 8118	MA07ZZ02 MA07ZZ05 MA07ZZ07 MA07ZZ09 MA08ZZ35
8.7.8.06	State Goal 7: Measurement: Estimate, make and use measurements of objects, quantities and relationships and determine acceptable levels of accuracy. Standard 7A 7B 7C: Units, Tools, Estimation, and Applications. Indirect Measurements and Scale Drawings	M7073 M7074 M7075 M7076 M7077 M7078 M8171 M8172 8090	MA08ZZ07 MA08ZZ20

	Objective 7.8.06: Solve problems involving scale drawings, maps, and indirect measurement (e.g., determining the height of a building by comparing its known shadow length to the known height and shadow length of another object).	8093 8131	
8.8.8.01	State Goal 8: Algebra: Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results. Standard 8A: Representations, Patterns, and Expressions. Patterns Objective 8.8.01: Analyze, extend, and create sequences or linear functions, and determine algebraic expressions to describe the nth term of a sequence.	AL001 AL002 AL009 AL157 AL115 76260 8141	AL-2A01 AL-2A02 AL-2A09 AL-2K08 MA07ZZ37 MA08ZZ44
8.8.8.02	State Goal 8: Algebra: Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results. Standard 8A: Representations, Patterns, and Expressions. Write and Simplify Expressions Objective 8.8.02: Write an expression using variables to represent unknown quantities.	AL001 AL002 AL008 AL009 AL157 AL115 76260 M8101 M8102 8121	AL-2A01 AL-2A02 AL-2A08 AL-2A09 AL-2K08 MA07ZZ37 MA08ZZ01
8.8.8.03	State Goal 8: Algebra: Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results. Standard 8A: Representations, Patterns, and Expressions. Write and Simplify Expressions Objective 8.8.03: Simplify algebraic expressions.	AL008 AL009 AL010 AL023 AL157 AL037 AL167 AL115 76242 76243 M8033 M8034 M8035 M8036 M8037 M8038 M8081 M8082 M8083 M8084 M8085 M8086 M8087 M8088 M8089 M8090 M8091 M8092 M8109 M8110 8121	AL-2A08 AL-2A09 AL-2A10 AL-2B11 AL-2D01 AL-2K08 MA07ZZ27 MA08ZZ01
8.8.8.04	State Goal 8: Algebra: Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results. Standard 8A: Representations, Patterns, and Expressions. Write and Simplify Expressions Objective 8.8.04: Recognize and generate equivalent forms of algebraic expressions.	AL001 AL157 76260 76261 8059	AL-2A01 MA07ZZ37 MA07ZZ38 MA08ZZ21
8.8.8.05	State Goal 8: Algebra: Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results. Standard 8A: Representations, Patterns, and Expressions. Evaluate Algebraic Expressions Objective 8.8.05: Evaluate or simplify algebraic expressions with one or more rational variable values (e.g., $3a^2 - b$ for $a = 3$ and $b = 7$).	AL001 AL002 AL008 AL009 AL010 AL023 AL157 AL037 AL167 AL115 76242 76243 76260 76261 M8033 M8034 M8035 M8036 M8037 M8038 M8081 M8082 M8083 M8084 M8085 M8086 M8087 M8088 M8089 M8090 M8091 M8092 M8109 M8110 8121	AL-2A01 AL-2A02 AL-2A08 AL-2A09 AL-2A10 AL-2B11 AL-2D01 AL-2K08 MA07ZZ27 MA07ZZ37 MA07ZZ38 MA08ZZ01

8.8.8.06	State Goal 8: Algebra: Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results. Standard 8B: Connections Using Tables, Graphs, and Symbols. Describing Change Objective 8.8.06: Recognize, describe, and extend patterns using rate of change.	8139 8140 8141	MA08ZZ42 MA08ZZ43 MA08ZZ44
8.8.8.07	State Goal 8: Algebra: Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results. Standard 8B: Connections Using Tables, Graphs, and Symbols. Coordinate System Objective 8.8.07: Represent linear equations and quantitative relationships on a rectangular coordinate system, and interpret the meaning of a specific part of a graph.	AL001 AL029 AL036 AL086 AL087 AL095 AL099 AL104 AL176 76262 76264 76263 76265 M8187 M8188 M8189 M8190 M8191 M8192 M8193 M8194 8081 8123	AL-2A01 AL-2C05 AL-2C12 AL-2I01 AL-2I02 AL-2I10 AL-2J03 AL-2J08 MA07ZZ10 MA07ZZ39 MA08ZZ48
8.8.8.08	State Goal 8: Algebra: Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results. Standard 8B: Connections Using Tables, Graphs, and Symbols. Representations Objective 8.8.08: Translate between different representations (table, written, graphical, or pictorial) of whole number relationships and linear expressions.	AL029 AL099 AL104 76292 M8187 M8188 M8189 M8190 M8191 M8192 M8193 M8194 M8215 M8216 M8217 M8218 M8219 M8220 8123	AL-2C05 AL-2J03 AL-2J08 MA07ZZ50 MA08ZZ48
8.8.8.09	State Goal 8: Algebra: Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results. Standard 8B: Connections Using Tables, Graphs, and Symbols. Representations Objective 8.8.09: Interpret the meaning of slope and intercepts in linear situations.	AL088 AL089 AL168 AL169 M8187 M8188 M8205 M8206 M8207 M8208 M8209 M8210 M8211 M8212	AL-2I03 AL-2I04
8.8.8.10	State Goal 8: Algebra: Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results. Standard 8B: Connections Using Tables, Graphs, and Symbols. Inequalities Objective 8.8.10: Identify, graph, and interpret up to two inequalities with a single variable (including the intersection or union of these inequalities) on a number line.	AL002 AL008 AL009 AL034 AL035 AL093 AL094 AL171 76262 76264 M8111 M8112 M8113 M8114 M8115 M8116 M8195 M8196 M8197 M8198 M8199 M8200 8121 8080 8122 8082 8124	AL-2A02 AL-2A08 AL-2A09 AL-2C10 AL-2C11 AL-2I08 AL-2I09 MA07ZZ39 MA08ZZ01 MA08ZZ13 MA08ZZ36
8.8.8.11	State Goal 8: Algebra: Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results. Standard 8C 8D: Writing, Interpreting, and Solving Equations. Write Equations and Inequalities Objective 8.8.11: Represent and analyze problems with linear equations and inequalities.	AL029 AL099 AL104 AL171 M8111 M8112 M8113 M8114 M8115 M8116 M8187 M8188 M8189 M8190 M8191 M8192 M8193 M8194 M8195 M8196	AL-2C05 AL-2J03 AL-2J08 MA08ZZ13 MA08ZZ36 MA08ZZ48

		M8197 M8198 M8199 M8200 M8203 M8204 8122 8123 8124	
8.8.8.12	State Goal 8: Algebra: Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results. Standard 8C 8D: Writing, Interpreting, and Solving Equations. Solve Equations and Inequalities Objective 8.8.12: Solve linear equations and inequalities in one variable over the rational numbers (e.g., $5x+7= -13$, $4x-3= -7x+8$, $-2x+3>-5$).	AL002 AL008 AL009 AL035 AL100 AL101 AL102 AL104 AL171 76262 76264 M8111 M8112 M8113 M8114 M8115 M8116 M8195 M8196 M8197 M8198 M8199 M8200 8121 8080 8122 8123 8082 8124	AL-2A02 AL-2A08 AL-2A09 AL-2C11 AL-2J04 AL-2J05 AL-2J06 AL-2J08 MA07ZZ39 MA08ZZ01 MA08ZZ13 MA08ZZ36 MA08ZZ48
8.8.8.13	State Goal 8: Algebra: Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results. Standard 8C 8D: Writing, Interpreting, and Solving Equations. Solve Equations and Inequalities Objective 8.8.13: Solve word problems involving unknown quantities.	AL159 76292 76294 8118 8119	MA07ZZ50 MA07ZZ52 MA08ZZ35 MA08ZZ47
8.9.8.01	State Goal 9: Use geometric methods to analyze, categorize and draw conclusions about points, lines, planes and space. Standard 9A: Properties of Single Figures and Coordinate Geometry. Properties of Single Figures Objective 9.8.01: Solve problems involving two- and three-dimensional shapes.	76266 M8153 M8154 M8155 M8156 M8157 M8158	MA07ZZ40
8.9.8.02	State Goal 9: Use geometric methods to analyze, categorize and draw conclusions about points, lines, planes and space. Standard 9A: Properties of Single Figures and Coordinate Geometry. Properties of Single Figures Objective 9.8.02: Solve problems that require knowledge of triangle and quadrilateral properties (e.g., triangle inequality).	AL121 AL122 76272 8084 8126	AL-2L04 AL-2L05 MA07ZZ43 MA08ZZ37
8.9.8.03	State Goal 9: Use geometric methods to analyze, categorize and draw conclusions about points, lines, planes and space. Standard 9A: Properties of Single Figures and Coordinate Geometry. Properties of Single Figures Objective 9.8.03: Find the length of any side of a right triangle using the Pythagorean theorem (whole number solutions).	AL033 AL096 AL121 M7133 M7134 M7135 M7136 M7137 M7138 M7139 M7140 76270 76271 M8121 M8122 M8123 M8124 M8125 M8126 8092 8130 8093 8131	AL-2C09 AL-2I11 AL-2L04 MA07ZZ15 MA08ZZ02 MA08ZZ20
8.9.8.04	State Goal 9: Use geometric methods to analyze, categorize and draw conclusions about points, lines, planes and space. Standard 9A: Properties of Single Figures and Coordinate Geometry. Circles Objective 9.8.04: Identify, describe, and determine the	6B014 76273 8087 8129	MA07ZZ44 MA08ZZ17

	radius, diameter, and circumference of a circle and their relationship to each other and to pi.		
8.9.8.05	State Goal 9: Use geometric methods to analyze, categorize and draw conclusions about points, lines, planes and space. Standard 9A: Properties of Single Figures and Coordinate Geometry. Coordinate Geometry Objective 9.8.05: Graph points, and identify coordinates of points on the Cartesian coordinate plane (all four quadrants).	AL086 AL096 M7225 M7226 M7227 M7228 M7229 M7230 M7231 M7232	AL-2I01 AL-2I11
8.9.8.06	State Goal 9: Use geometric methods to analyze, categorize and draw conclusions about points, lines, planes and space. Standard 9A: Properties of Single Figures and Coordinate Geometry. Coordinate Geometry Objective 9.8.06: Represent and identify geometric figures using coordinate geometry, including those resulting from transformations.	AL096	AL-2I11
8.9.8.08	State Goal 9: Use geometric methods to analyze, categorize and draw conclusions about points, lines, planes and space. Standard 9A: Properties of Single Figures and Coordinate Geometry. Lines, Segments, Rays, and Angles Objective 9.8.08: Identify or analyze relationships of angles formed by intersecting lines (including parallel lines cut by a transversal) and angles formed by radii of a circle.	AL119 76267 8083 8125 8087 8129	AL-2L02 MA07ZZ41 MA08ZZ15 MA08ZZ17
8.9.8.09	State Goal 9: Use geometric methods to analyze, categorize and draw conclusions about points, lines, planes and space. Standard 9A: Properties of Single Figures and Coordinate Geometry. Lines, Segments, Rays, and Angles Objective 9.8.09: Solve problems involving vertical, complementary, and supplementary angles.	AL118 M7163 M7164 76266 76267 M8159 M8160 M8161 M8162 M8163 M8164 8083 8125 8127	AL-2L01 MA07ZZ40 MA07ZZ41 MA08ZZ14 MA08ZZ15
8.9.8.10	State Goal 9: Use geometric methods to analyze, categorize and draw conclusions about points, lines, planes and space. Standard 9B: Relationships Between and Among Multiple Figures. Relationships Between Two- and Three-Dimensional Objects Objective 9.8.10: Identify front, side, and top views of a three- dimensional solid built with cubes.	76266 8089	MA07ZZ40 MA08ZZ18
8.9.8.11	State Goal 9: Use geometric methods to analyze, categorize and draw conclusions about points, lines, planes and space. Standard 9B: Relationships Between and Among Multiple Figures. Congruency and Similarity Objective 9.8.11: Solve problems involving congruent and similar figures.	76269 8127	MA07ZZ11 MA08ZZ14
8.9.8.12	State Goal 9: Use geometric methods to analyze, categorize and draw conclusions about points, lines, planes and space. Standard 9B: Relationships Between and Among Multiple Figures. Distance Objective 9.8.12: Relate absolute value to distance on the number line.	AL003 AL013 AL014 AL034 76262 76264 M8005 M8006 M8007 M8008 M8009 M8010 8059 8101 8071 8122	AL-2A03 AL-2B01 AL-2B02 AL-2C10 MA07ZZ39 MA08ZZ13 MA08ZZ21 MA08ZZ31

8.10.8.01	<p>State Goal 10: Collect, organize and analyze data using statistical methods; predict results; and interpret uncertainty using concepts of probability.</p> <p>Standard 10A 10B: Data Analysis and Statistics. Read and Interpret Displays</p> <p>Objective 10.8.01: Read, interpret (including possible misleading characteristics), and make predictions from data represented in a bar graph, line (dot) plot, Venn diagram (with two or three circles), chart/table, line graph, scatterplot, circle graph, stem-and-leaf plot, or histogram.</p>	<p>AL067 AL107 M7265 M7266 M7267 M7268 M7269 M7270 76280 76281 76282 76283 76284 M8243 M8244 M8245 M8246 M8247 M8248 M8249 M8250 M8251 M8252 M8253 M8254 8094 8132 8095 8133 8096 8134 8097 8135</p>	<p>AL-2G01 AL-2J11 MA07ZZ04 MA07ZZ12 MA07ZZ13 MA07ZZ45 MA07ZZ46 MA08ZZ04 MA08ZZ10 MA08ZZ39 MA08ZZ49</p>
8.10.8.02	<p>State Goal 10: Collect, organize and analyze data using statistical methods; predict results; and interpret uncertainty using concepts of probability.</p> <p>Standard 10A 10B: Data Analysis and Statistics. Read and Interpret Displays</p> <p>Objective 10.8.02: Compare and contrast the effectiveness of different representations of the same data.</p>	<p>AL067 AL107 76282 76283</p>	<p>AL-2G01 AL-2J11 MA07ZZ12 MA07ZZ46</p>
8.10.8.03	<p>State Goal 10: Collect, organize and analyze data using statistical methods; predict results; and interpret uncertainty using concepts of probability.</p> <p>Standard 10A 10B: Data Analysis and Statistics. Complete and Create Displays</p> <p>Objective 10.8.03: Create a bar graph, chart/table, line graph, or circle graph and solve a problem using the data in the graph for a given set of data.</p>	<p>AL067 76281 76282 76283 M8243 M8244 M8245 M8246 M8247 M8248 8094 8132</p>	<p>AL-2G01 MA07ZZ04 MA07ZZ12 MA07ZZ46 MA08ZZ04</p>
8.10.8.04	<p>State Goal 10: Collect, organize and analyze data using statistical methods; predict results; and interpret uncertainty using concepts of probability.</p> <p>Standard 10A 10B: Data Analysis and Statistics. Line of Best Fit</p> <p>Objective 10.8.04: Identify or draw a reasonable approximation of the line of best fit from a set of data or a scatter plot, and use the line to make predictions.</p>	<p>8096 8134</p>	<p>MA08ZZ39</p>
8.10.8.05	<p>State Goal 10: Collect, organize and analyze data using statistical methods; predict results; and interpret uncertainty using concepts of probability.</p> <p>Standard 10A 10B: Data Analysis and Statistics. Statistics</p> <p>Objective 10.8.05: Analyze and apply measures of central tendency (mode, range, median, and mean) in problem-solving situations.</p>	<p>AL068 M7277 M7278 M8255 M8256 M8257 M8258 M8259 M8260 M8261 M8262 8134 8097 8135 8098 8136</p>	<p>AL-2G02 MA08ZZ11 MA08ZZ39 MA08ZZ49</p>
8.10.8.06	<p>State Goal 10: Collect, organize and analyze data using statistical methods; predict results; and interpret uncertainty using concepts of probability.</p> <p>Standard 10C: Probability. Probability</p> <p>Objective 10.8.06: Solve problems involving the probability of an event composed of repeated trials, compound events (including independent events), or future events with or without replacement.</p>	<p>AL073 AL075 M7253 M7254 M7255 M7256 M7257 M7258 76286 76287 76288 76289 76295 M8227 M8228 M8229 M8230 M8231 M8232 8099 8137 8100 8143</p>	<p>AL-2G07 AL-2G09 MA07ZZ03 MA07ZZ47 MA07ZZ53 MA08ZZ40 MA08ZZ41 MA08ZZ46</p>

8.10.8.07	<p>State Goal 10: Collect, organize and analyze data using statistical methods; predict results; and interpret uncertainty using concepts of probability.</p> <p>Standard 10C: Probability. Outcomes and Counting Principles</p> <p>Objective 10.8.07: Represent all possible outcomes (sample space) for simple or compound events (e.g., tables, grids, tree diagrams).</p>	<p>AL070 AL071 AL072 AL074 AL075 M8227 M8228 M8229 M8230 M8231 M8232 8099 8143</p>	<p>AL-2G04 AL-2G05 AL-2G06 AL-2G08 AL-2G09 MA08ZZ40 MA08ZZ46</p>
8.10.8.08	<p>State Goal 10: Collect, organize and analyze data using statistical methods; predict results; and interpret uncertainty using concepts of probability.</p> <p>Standard 10C: Probability. Outcomes and Counting Principles</p> <p>Objective 10.8.08: Solve simple problems involving the number of ways objects can be arranged (permutations and combinations).</p>	<p>AL164 AL165 76286 76287 76290 8100 8138</p>	<p>MA07ZZ03 MA07ZZ48 MA08ZZ41</p>