

Loyalsock Township School District

Benchmarks: What Students Should Know and Be Able to Do

SAS - Curriculum Framework (PA Core: Mathematics / Number and Operations / 6th Grade)

Long Term Transfer Goals

1. Make sense of and persevere in solving complex and novel mathematical problems.
2. Use effective mathematical reasoning to construct viable arguments and critique the reasoning of others.
3. Communicate precisely when making mathematical statements and express answers with a degree of precision appropriate for the context of the problem/situation.
4. Apply mathematical knowledge to analyze and model situations/relationships using multiple representations and appropriate tools in order to make decisions, solve problems, and draw conclusions.
5. Make use of structure and repeated reasoning to gain a mathematical perspective and formulate generalized problem solving strategies.

Big Idea

- Mathematical relationships among numbers can be represented, compared, and communicated.

Essential Question

- How is mathematics used to quantify, compare, represent, and model numbers?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5

Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Number Theory Concepts and Operations	Solve problems and compute fluently with whole numbers and decimals.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Number Theory Concepts and Operations	Find common multiples and factors including greatest common factor and least common multiple.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Number Theory Concepts and Operations	Use the distributive property to express a sum of two numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Integers and Other Rational Numbers	Use positive and negative numbers to represent quantities in real world contexts.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Plot integers and other rational numbers on a number line and on a coordinate graph.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C .

		Mean absolute deviation		style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Interpret the opposite and absolute value of an integer as its distance from zero on a number line	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Compare and order rational numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3

Essential Question

- How can mathematics support effective communication?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5

		Common Multiple Mean Mean absolute deviation		
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Number Theory Concepts and Operations	Solve problems and compute fluently with whole numbers and decimals.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Number Theory Concepts and Operations	Find common multiples and factors including greatest common factor and least common multiple.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Number Theory Concepts and Operations	Use the distributive property to express a sum of two numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Integers and Other Rational Numbers	Use positive and negative numbers to represent quantities in real world contexts.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1,

				M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Plot integers and other rational numbers on a number line and on a coordinate graph.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Interpret the opposite and absolute value of an integer as its distance from zero on a number line	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Compare and order rational numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3

Essential Question

- How are relationships represented mathematically?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4,

		Irregular Polygon Least Common Multiple Mean Mean absolute deviation		M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Integers and Other Rational Numbers	Use positive and negative numbers to represent quantities in real world contexts.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Plot integers and other rational numbers on a number line and on a coordinate graph.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M

				06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Interpret the opposite and absolute value of an integer as its distance from zero on a number line	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Compare and order rational numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3

Essential Question

- How can expressions, equations, and inequalities be used to quantify, solve, model, and/or analyze mathematical situations?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2,

		Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation		M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Integers and Other Rational Numbers	Use positive and negative numbers to represent quantities in real world contexts.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Plot integers and other rational numbers on a number line and on a coordinate graph.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Interpret the opposite and absolute value of an integer as its distance from zero on a number line	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162

				310?cf=y "target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Compare and order rational numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y "target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3

Essential Question

- What makes a tool and/or strategy appropriate for a given task?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5

Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Number Theory Concepts and Operations	Solve problems and compute fluently with whole numbers and decimals.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Number Theory Concepts and Operations	Find common multiples and factors including greatest common factor and least common multiple.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Number Theory Concepts and Operations	Use the distributive property to express a sum of two numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Integers and Other Rational Numbers	Use positive and negative numbers to represent quantities in real world contexts.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . /Standard/StandardsBrowser#162310?cf=y "target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3

Integers and Other Rational Numbers	Plot integers and other rational numbers on a number line and on a coordinate graph.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C ." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Interpret the opposite and absolute value of an integer as its distance from zero on a number line	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C ." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Compare and order rational numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C ." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3

Essential Question

- How can patterns be used to describe relationships in mathematical situations?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5

Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5

Essential Question

- What does it mean to estimate or analyze numerical quantities?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Number Theory Concepts and Operations	Solve problems and compute fluently with whole numbers and decimals.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Number Theory Concepts and Operations	Find common multiples and factors including greatest common factor and least common multiple.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Number Theory Concepts and Operations	Use the distributive property to express a sum of two numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2

Big Idea

- Mathematical relationships can be represented as expressions, equations, and inequalities in mathematical situations.

Essential Question

- How is mathematics used to quantify, compare, represent, and model numbers?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Integers and Other Rational Numbers	Use positive and negative numbers to represent quantities in real world contexts.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1,

				M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Plot integers and other rational numbers on a number line and on a coordinate graph.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Interpret the opposite and absolute value of an integer as its distance from zero on a number line	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Compare and order rational numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3

Essential Question

- How can mathematics support effective communication?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5

		Mean absolute deviation		
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Integers and Other Rational Numbers	Use positive and negative numbers to represent quantities in real world contexts.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Plot integers and other rational numbers on a number line and on a coordinate graph.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1,

				M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Interpret the opposite and absolute value of an integer as its distance from zero on a number line	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Compare and order rational numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3

Essential Question

- How are relationships represented mathematically?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4,

		Irregular Polygon Least Common Multiple Mean Mean absolute deviation		M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Integers and Other Rational Numbers	Use positive and negative numbers to represent quantities in real world contexts.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Plot integers and other rational numbers on a number line and on a coordinate graph.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Interpret the opposite and absolute value of an integer as its distance from zero on a number line	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M

				06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Compare and order rational numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3

Essential Question

- How can expressions, equations, and inequalities be used to quantify, solve, model, and/or analyze mathematical situations?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2,

	ratios	Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation		M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Integers and Other Rational Numbers	Use positive and negative numbers to represent quantities in real world contexts.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . " style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Plot integers and other rational numbers on a number line and on a coordinate graph.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . " style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Interpret the opposite and absolute value of an integer as its distance from zero on a number line	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . " style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Compare and order rational numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . " style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3

				310?cf=y "target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
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Essential Question

- What makes a tool and/or strategy appropriate for a given task?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Integers and Other Rational Numbers	Use positive and negative numbers to represent quantities in real world contexts.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#1623

				10?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Plot integers and other rational numbers on a number line and on a coordinate graph.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Interpret the opposite and absolute value of an integer as its distance from zero on a number line	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Compare and order rational numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3

Essential Question

- How can patterns be used to describe relationships in mathematical situations?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5

Big Idea

- Numerical quantities, calculations, and measurements can be estimated or analyzed by using appropriate strategies and tools.

Essential Question

- How is mathematics used to quantify, compare, represent, and model numbers?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5

		Mean absolute deviation		
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Number Theory Concepts and Operations	Solve problems and compute fluently with whole numbers and decimals.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Number Theory Concepts and Operations	Find common multiples and factors including greatest common factor and least common multiple.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Number Theory Concepts and Operations	Use the distributive property to express a sum of two numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Integers and Other Rational Numbers	Use positive and negative numbers to represent quantities in real world contexts.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is

		Irregular Polygon Least Common Multiple Mean Mean absolute deviation		warmer than -7°C . " style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Plot integers and other rational numbers on a number line and on a coordinate graph.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . " style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Interpret the opposite and absolute value of an integer as its distance from zero on a number line	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . " style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Compare and order rational numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . " style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3

Essential Question

- How can mathematics support effective communication?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Number Theory Concepts and Operations	Solve problems and compute fluently with whole numbers and decimals.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Number Theory Concepts and Operations	Find common multiples and factors including greatest common factor and least common multiple.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2

Number Theory Concepts and Operations	Use the distributive property to express a sum of two numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Integers and Other Rational Numbers	Use positive and negative numbers to represent quantities in real world contexts.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C ." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Plot integers and other rational numbers on a number line and on a coordinate graph.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C ." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Interpret the opposite and absolute value of an integer as its distance from zero on a number line	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C ." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Compare and order rational numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C ." style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3

		Mean absolute deviation		style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y" target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
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Essential Question

- How are relationships represented mathematically?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Integers and Other Rational Numbers	Use positive and negative numbers to represent quantities in real world contexts.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C ."

		Mean absolute deviation		target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Plot integers and other rational numbers on a number line and on a coordinate graph.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	target="_blank">M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue; text-decoration: none;">target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Interpret the opposite and absolute value of an integer as its distance from zero on a number line	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	target="_blank">M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue; text-decoration: none;">target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Compare and order rational numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	target="_blank">M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C." style="color: blue; text-decoration: none;">target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3

Essential Question

- How can expressions, equations, and inequalities be used to quantify, solve, model, and/or analyze mathematical situations?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Integers and Other Rational Numbers	Use positive and negative numbers to represent quantities in real world contexts.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2,

				M06.A-N.3.2.3
Integers and Other Rational Numbers	Plot integers and other rational numbers on a number line and on a coordinate graph.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Interpret the opposite and absolute value of an integer as its distance from zero on a number line	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Compare and order rational numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3

Essential Question

- What makes a tool and/or strategy appropriate for a given task?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5

		Mean absolute deviation		
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Number Theory Concepts and Operations	Solve problems and compute fluently with whole numbers and decimals.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Number Theory Concepts and Operations	Find common multiples and factors including greatest common factor and least common multiple.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Number Theory Concepts and Operations	Use the distributive property to express a sum of two numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Integers and Other Rational Numbers	Use positive and negative numbers to represent quantities in real world contexts.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is

		Irregular Polygon Least Common Multiple Mean Mean absolute deviation		warmer than -7°C . " style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Plot integers and other rational numbers on a number line and on a coordinate graph.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . " style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Interpret the opposite and absolute value of an integer as its distance from zero on a number line	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . " style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3
Integers and Other Rational Numbers	Compare and order rational numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.4	M06.A-N.3.1.1, M06.A-N.3.1.2, M06.A-N.3.1.3, -7°C to express the fact that -3°C is warmer than -7°C . " style="color: blue;" href="/Standard/StandardsBrowser#162310?cf=y " target="_blank">M06.A-N.3.2.1, M06.A-N.3.2.2, M06.A-N.3.2.3

Essential Question

- How can patterns be used to describe relationships in mathematical situations?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5

Essential Question

- What does it mean to estimate or analyze numerical quantities?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Number Theory Concepts and Operations	Solve problems and compute fluently with whole numbers and decimals.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2

Number Theory Concepts and Operations	Find common multiples and factors including greatest common factor and least common multiple.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2
Number Theory Concepts and Operations	Use the distributive property to express a sum of two numbers.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.E.2, CC.2.1.6.E.3	M06.A-N.2.1.1, M06.A-N.2.2.1, M06.A-N.2.2.2

Big Idea

- Patterns exhibit relationships that can be extended, described, and generalized.

Essential Question

- How is mathematics used to quantify, compare, represent, and model numbers?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3,

		variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation		M06.A-R.1.1.4, M06.A-R.1.1.5
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Essential Question

- How can mathematics support effective communication?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5

Essential Question

- How are relationships represented mathematically?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4,

		Irregular Polygon Least Common Multiple Mean Mean absolute deviation		M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5

Essential Question

- How can expressions, equations, and inequalities be used to quantify, solve, model, and/or analyze mathematical situations?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3,

		variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation		M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5

Essential Question

- What makes a tool and/or strategy appropriate for a given task?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3,

		variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation		M06.A-R.1.1.4, M06.A-R.1.1.5
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Essential Question

- How can patterns be used to describe relationships in mathematical situations?

Concepts	Competencies	Vocabulary	Standards	Eligible Content
Ratios, Proportions, and Percent	Represent ratio relationships in various forms.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Determine unit rates in context.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Interpret and compute quotients of fraction.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Solve problems using ratio and rate reasoning.	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5
Ratios, Proportions, and Percent	Convert measurement units using equivalent ratios	Absolute value Algebraic expressions Box and whisker plots Coefficient Compound polygon Dependent variable Distributive property Dot plots Exponent Greatest Common Factor Independent variable Inequality Integer Interquartile range Irregular Polygon Least Common Multiple Mean Mean absolute deviation	CC.2.1.6.D.1, CC.2.1.6.E.1	M06.A-N.1.1.1, M06.A-R.1.1.1, M06.A-R.1.1.2, M06.A-R.1.1.3, M06.A-R.1.1.4, M06.A-R.1.1.5