STAAR Alternate 2 Spring 2019
Grade 7 Mathematics Essence Statements

STAAR Reporting Category 1	STAAR Reporting Category 2	STAAR Reporting Category 3	STAAR Reporting Category 4
Probability and Numerical Representations: The student will demonstrate an understanding of how to represent probabilities and numbers.	**Computations and Algebraic Relationships:** The student will demonstrate an understanding of how to perform operations and represent algebraic relationships.	**Geometry and Measurement:** The student will demonstrate an understanding of how to represent and apply geometry and measurement concepts.	**Data Analysis and Personal Financial Literacy:** The student will demonstrate an understanding of how to represent and analyze data and how to describe and apply personal financial concepts.

Knowledge and Skills Statement

(7.2) **Number and operations.** The student applies mathematical process standards to represent and use rational numbers in a variety of forms. (Supporting Standard)

Essence Statement

Models relationships between sets of numbers.

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Knowledge and Skills Statement

(7.6) **Proportionality.** The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. (Readiness and Supporting Standard)

Essence Statement

Uses probability to solve problems involving proportional relationships.

Knowledge and Skills Statement

(7.3) **Number and operations.** The student applies mathematical process standards to add, subtract, multiply, and divide while solving problems and justifying solutions. (Readiness and Supporting Standard)

Essence Statement

Finds solutions to addition, subtraction, multiplication, or division problems.

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Knowledge and Skills Statement

(7.4) **Proportionality.** The student applies mathematical process standards to represent and solve problems involving proportional relationships. (Readiness and Supporting Standard)

Essence Statement

Solves problems involving ratios, rates, or percents.

Knowledge and Skills Statement

(7.5) **Proportionality**. The student applies mathematical process standards to use geometry to describe or solve problems involving proportional relationships. (Readiness and Supporting Standard)

Essence Statement

Solves problems using proportional relationships for geometric figures.

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Knowledge and Skills Statement

(7.9) **Expressions, equations, and relationships.** The student applies mathematical process standards to solve geometric problems. (Readiness and Supporting Standard)

Essence Statement

Solves problems involving circumference, area, or volume of two or three-dimensional geometric figures.

Knowledge and Skills Statement

(7.6) **Proportionality.** The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. (Readiness Standard)

Essence Statement

Solves problems using data represented in graphs.

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Knowledge and Skills Statement

(7.12) **Measurement and data.** The student applies mathematical process standards to use statistical representations to analyze data. (Readiness and Supporting Standard)

Essence Statement

Interprets data in graphs.

Knowledge and Skills Statement

(7.10) Expressions, equations, and relationships. The student applies mathematical process standards to use one-variable equations and inequalities to represent situations. (Supporting Standard)

Essence Statement

Use equations or inequalities to model real-life situations.

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Knowledge and Skills Statement

(7.11) Expressions, equations, and relationships. The student applies mathematical process standards to solve one-variable equations and inequalities. (Readiness and Supporting Standard)

Essence Statement

Uses equations or inequalities to model and solve problems.

Knowledge and Skills Statement

(7.11) Expressions, equations, and relationships. The student applies mathematical process standards to solve one-variable equations and inequalities. (Supporting Standard)

Essence Statement

Identifies or solves equations using geometry concepts.