

## STAAR Alternate 2 Spring 2021 Grade 7 Mathematics Essence Statements

STAAR Reporting Category 1	STAAR Reporting Category 2	STAAR Reporting Category 3	STAAR Reporting Category 4
<p><b>Probability and Numerical Representations:</b> The student will demonstrate an understanding of how to represent probabilities and numbers.</p>	<p><b>Computations and Algebraic Relationships:</b> The student will demonstrate an understanding of how to perform operations and represent algebraic relationships.</p>	<p><b>Geometry and Measurement:</b> The student will demonstrate an understanding of how to represent and apply geometry and measurement concepts.</p>	<p><b>Data Analysis and Personal Financial Literacy:</b> The student will demonstrate an understanding of how to represent and analyze data and how to describe and apply personal financial concepts.</p>
<p><b>Knowledge and Skills Statement (7.2) Number and operations.</b> The student applies mathematical process standards to represent and use rational numbers in a variety of forms. (Supporting Standard) <b>Essence Statement</b> Models relationships between sets of numbers.</p> <p><b>Knowledge and Skills Statement (7.6) Proportionality.</b> The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. (Readiness and Supporting Standard) <b>Essence Statement</b> Uses probability to solve problems involving proportional relationships.</p>	<p><b>Knowledge and Skills Statement (7.3) Number and operations.</b> The student applies mathematical process standards to add, subtract, multiply, and divide while solving problems and justifying solutions. (Readiness and Supporting Standard) <b>Essence Statement</b> Finds solutions to addition, subtraction, multiplication, or division problems.</p> <p><b>Knowledge and Skills Statement (7.4) Proportionality.</b> The student applies mathematical process standards to represent and solve problems involving proportional relationships. (Readiness and Supporting Standard) <b>Essence Statement</b> Solves problems involving ratios, rates, or percents.</p> <p><b>Knowledge and Skills Statement (7.7) Expressions, equations, and relationships.</b> The student applies mathematical process standards to represent linear relationships using multiple representations. (Readiness Standard) <b>Essence Statement</b> Shows linear relationships using a variety of forms.</p>	<p><b>Knowledge and Skills Statement (7.4) Proportionality.</b> The student applies mathematical process standards to represent and solve problems involving proportional relationships. (Supporting Standard) <b>Essence Statement</b> Uses conversions between measurement systems to solve problems.</p> <p><b>Knowledge and Skills Statement (7.5) Proportionality.</b> The student applies mathematical process standards to use geometry to describe or solve problems involving proportional relationships. (Readiness and Supporting Standard) <b>Essence Statement</b> Solves problems using proportional relationships for geometric figures.</p> <p><b>Knowledge and Skills Statement (7.9) Expressions, equations, and relationships.</b> The student applies mathematical process standards to solve geometric problems. (Readiness and Supporting Standard) <b>Essence Statement</b> Solves problems involving circumference, area, or volume of two or three-dimensional geometric figures.</p>	<p><b>Knowledge and Skills Statement (7.6) Proportionality.</b> The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. (Readiness Standard) <b>Essence Statement</b> Solves problems using data represented in graphs.</p> <p><b>Knowledge and Skills Statement (7.12) Measurement and data.</b> The student applies mathematical process standards to use statistical representations to analyze data. (Readiness and Supporting Standard) <b>Essence Statement</b> Interprets data in graphs.</p> <p><b>Knowledge and Skills Statement (7.13) Personal financial literacy.</b> The student applies mathematical process standards to develop an economic way of thinking and problem solving useful in one's life as a knowledgeable consumer and investor. (Supporting Standard) <b>Essence Statement</b> Recognizes ways to increase or decrease income and expenses.</p>

	<p><b>Knowledge and Skills Statement</b>  <b>(7.10) Expressions, equations, and relationships.</b> The student applies mathematical process standards to use one-variable equations and inequalities to represent situations. (Supporting Standard)</p> <p><b>Essence Statement</b>  Use equations or inequalities to model real-life situations.</p>	<p><b>Knowledge and Skills Statement</b>  <b>(7.11) Expressions, equations, and relationships.</b> The student applies mathematical process standards to solve one-variable equations and inequalities. (Supporting Standard)</p> <p><b>Essence Statement</b>  Identifies or solves equations using geometry concepts.</p>	
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