

Subject	Chapter 111. Mathematics			
Course Title	§111.27. Math, Grade 7, Beginning with School Year 2014-2015			
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(C) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems	(ii) select tools, including manipulatives as appropriate, to solve problems		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(C) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems	(iii) select tools, including paper and pencil as appropriate, to solve problems		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(C) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems	(iv) select tools, including technology as appropriate, to solve problems		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(C) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems	(v) select techniques, including mental math as appropriate, to solve problems		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(C) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems	(vi) select techniques, including estimation as appropriate, to solve problems		

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(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(C) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems	(vii) select techniques, including number sense as appropriate, to solve problems		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	(i) communicate mathematical ideas using multiple representations, including symbols as appropriate		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	(ii) communicate mathematical ideas using multiple representations, including diagrams as appropriate		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	(iii) communicate mathematical ideas using multiple representations, including graphs as appropriate		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	(iv) communicate mathematical ideas using multiple representations, including language as appropriate		

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(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	(v) communicate mathematical reasoning using multiple representations, including symbols as appropriate		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	(vi) communicate mathematical reasoning using multiple representations, including diagrams as appropriate		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	(vii) communicate mathematical reasoning using multiple representations, including graphs as appropriate		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	(viii) communicate mathematical reasoning using multiple representations, including language as appropriate		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	(ix) communicate [mathematical ideas'] implications using multiple representations, including symbols as appropriate		

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(1) Mathematical process standards. The student uses mathematical processes to acquire				

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(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	(xv) communicate [mathematical reasoning's] implications using multiple representations, including graphs as appropriate		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	(xvi) communicate [mathematical reasoning's] implications using multiple representations, including language as appropriate		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(E) create and use representations to organize, record, and communicate mathematical ideas	(i) create representations to organize mathematical ideas		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(E) create and use representations to organize, record, and communicate mathematical ideas	(ii) use representations to organize mathematical ideas		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(E) create and use representations to organize, record, and communicate mathematical ideas	(iii) create representations to record mathematical ideas		

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(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(E) create and use representations to organize, record, and communicate mathematical ideas	(iv) use representations to record mathematical ideas		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(E) create and use representations to organize, record, and communicate mathematical ideas	(v) create representations to communicate mathematical ideas		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(E) create and use representations to organize, record, and communicate mathematical ideas	(vi) use representations to communicate mathematical ideas		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(F) analyze mathematical relationships to connect and communicate mathematical ideas	(i) analyze mathematical relationships to connect mathematical ideas		
(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(F) analyze mathematical relationships to connect and communicate mathematical ideas	(ii) analyze mathematical relationships to communicate mathematical ideas		

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(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:	(G) display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication	(vi) justify mathematical arguments using precise mathematical language in written or oral communication		
(2) Number and operations. The student applies mathematical process standards to represent and use rational numbers in a variety of forms. The student is expected to:	(A) extend previous knowledge of sets and subsets using a visual representation to describe relationships between sets of rational numbers			
(3) Number and operations. The student applies mathematical process standards to add, subtract, multiply, and divide while solving problems and justifying solutions. The student is expected to:	(A) add, subtract, multiply, and divide rational numbers fluently	(i) add rational numbers fluently		
(3) Number and operations. The student applies mathematical process standards to add, subtract, multiply, and divide while solving problems and justifying solutions. The student is expected to:	(A) add, subtract, multiply, and divide rational numbers fluently	(ii) subtract rational numbers fluently		

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(3) Number and operations. The student applies mathematical process standards to add, subtract, multiply, and divide while solving problems and justifying solutions. The student is expected to:	(A) add, subtract, multiply, and divide rational numbers fluently	(iii) multiply rational numbers fluently		
(3) Number and operations. The student applies mathematical process standards to add, subtract, multiply, and divide while solving problems and justifying solutions. The student is expected to:	(A) add, subtract, multiply, and divide rational numbers fluently	(iv) divide rational numbers fluently		
(3) Number and operations. The student applies mathematical process standards to add, subtract, multiply, and divide while solving problems and justifying solutions. The student is expected to:	(B) apply and extend previous understandings of operations to solve problems using addition, subtraction, multiplication, and division of rational numbers	(i) apply previous understandings of operations to solve problems using addition of rational numbers		
(3) Number and operations. The student applies mathematical process standards to add, subtract, multiply, and divide while solving problems and justifying solutions. The student is expected to:	(B) apply and extend previous understandings of operations to solve problems using addition, subtraction, multiplication, and division of rational numbers	(ii) apply previous understandings of operations to solve problems using subtraction of rational numbers		

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(3) Number and operations. The				

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<p>(3) Number and operations. The student applies mathematical process standards to add, subtract, multiply, and divide while solving problems and justifying solutions. The student is expected to:</p>	<p>(B) apply and extend previous understandings of operations to solve problems using addition, subtraction, multiplication, and division of rational numbers</p>	<p>(vii) extend previous understandings of operations to solve problems using multiplication of rational numbers</p>		
<p>(3) Number and operations. The student applies mathematical process standards to add, subtract, multiply, and divide while solving problems and justifying solutions. The student is expected to:</p>	<p>(B) apply and extend previous understandings of operations to solve problems using addition, subtraction, multiplication, and division of rational numbers</p>	<p>(viii) extend previous understandings of operations to solve problems using division of rational numbers</p>		
<p>(4) Proportionality. The student applies mathematical process standards to represent and solve problems involving proportional relationships. The student is expected to:</p>	<p>(A) represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including $d = rt$</p>	<p>(i) represent constant rates of change in mathematical problems given pictorial representations including $d = rt$</p>		

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(4) Proportionality. The student applies mathematical process standards to represent and solve problems involving proportional relationships. The student is expected to:	(A) represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including $d = rt$	(iv) represent constant rates of change in mathematical problems given numeric representations		
(4) Proportionality. The student applies mathematical process standards to represent and solve problems involving proportional relationships. The student is expected to:	(A) represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including $d = rt$	(v) represent constant rates of change in mathematical problems given graphical representations		
(4) Proportionality. The student applies mathematical process standards to represent and solve problems involving proportional relationships. The student is expected to:	(A) represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including $d = rt$	(vi) represent constant rates of change in mathematical problems given algebraic representations, including $d = rt$		
(4) Proportionality. The student applies mathematical process standards to represent and solve problems involving proportional relationships. The student is expected to:	(A) represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including $d = rt$	(vii) represent constant rates of change in real-world problems given pictorial representations		
(4) Proportionality. The student applies mathematical process standards to represent and solve problems involving proportional relationships. The student is expected to:	(A) represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including $d = rt$	(viii) represent constant rates of change in real-world problems given tabular representations		

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(4) Proportionality. The student applies mathematical process standards to represent and solve problems involving proportional relationships. The student is expected to:	(A) represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including $d = rt$	(ix) represent constant rates of change in real-world problems given verbal representations		
(4) Proportionality. The student applies mathematical process standards to represent and solve problems involving proportional relationships. The student is expected to:	(A) represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including $d = rt$	(x) represent constant rates of change in real-world problems given numeric representations		
(4) Proportionality. The student applies mathematical process standards to represent and solve problems involving proportional relationships. The student is expected to:	(A) represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including $d = rt$	(xi) represent constant rates of change in real-world problems given graphical representations		
(4) Proportionality. The student applies mathematical process standards to represent and solve problems involving proportional relationships. The student is expected to:	(A) represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including $d = rt$	(xii) represent constant rates of change in real-world problems given algebraic representations, including $d = rt$		
(4) Proportionality. The student applies mathematical process standards to represent and solve problems involving proportional relationships. The student is expected to:	(B) calculate unit rates from rates in mathematical and real-world problems	(i) calculate unit rates from rates in mathematical problems		

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TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(4) Proportionality. The student applies mathematical process standards to represent and solve problems involving proportional relationships. The student is expected to:	(D) solve problems involving ratios, rates, and percents, including multi-step problems involving percent increase and percent decrease, and financial literacy problems	(iii) solve problems involving ratios, including financial literacy problems		
(4) Proportionality. The student applies mathematical process standards to represent and solve problems involving proportional relationships. The student is expected to:	(D) solve problems involving ratios, rates, and percents, including multi-step problems involving percent increase and percent decrease, and financial literacy problems	(iv) solve problems involving rates, including multi-step problems involving percent increase		
(4) Proportionality. The student applies mathematical process standards to represent and solve problems involving proportional relationships. The student is expected to:	(D) solve problems involving ratios, rates, and percents, including multi-step problems involving percent increase and percent decrease, and financial literacy problems	(v) solve problems involving rates, including multi-step problems involving percent decrease		
(4) Proportionality. The student applies mathematical process standards to represent and solve problems involving proportional relationships. The student is expected to:	(D) solve problems involving ratios, rates, and percents, including multi-step problems involving percent increase and percent decrease, and financial literacy problems	(vi) solve problems involving rates, including financial literacy problems		
(4) Proportionality. The student applies mathematical process standards to represent and solve problems involving proportional relationships. The student is expected to:	(D) solve problems involving ratios, rates, and percents, including multi-step problems involving percent increase and percent decrease, and financial literacy problems	(vii) solve problems involving percents, including multi-step problems involving percent increase		

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(5) Proportionality. The student applies mathematical process standards to use geometry to describe or solve problems involving proportional relationships. The student is expected to:	(A) generalize the critical attributes of similarity, including ratios within and between similar shapes	(ii) generalize the critical attributes of similarity, including ratios between similar shapes		
(5) Proportionality. The student applies mathematical process standards to use geometry to describe or solve problems involving proportional relationships. The student is expected to:	(B) describe π as the ratio of the circumference of a circle to its diameter			
(5) Proportionality. The student applies mathematical process standards to use geometry to describe or solve problems involving proportional relationships. The student is expected to:	(C) solve mathematical and real-world problems involving similar shape and scale drawings	(i) solve mathematical problems involving similar shape drawings		
(5) Proportionality. The student applies mathematical process standards to use geometry to describe or solve problems involving proportional relationships. The student is expected to:	(C) solve mathematical and real-world problems involving similar shape and scale drawings	(ii) solve mathematical problems involving scale drawings		
(5) Proportionality. The student applies mathematical process standards to use geometry to describe or solve problems involving proportional relationships. The student is expected to:	(C) solve mathematical and real-world problems involving similar shape and scale drawings	(iii) solve real-world problems involving similar shape drawings		

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(5) Proportionality. The student applies mathematical process standards to use geometry to describe or solve problems involving proportional relationships. The student is expected to:	(C) solve mathematical and real-world problems involving similar shape and scale drawings	(iv) solve real-world problems involving scale drawings		
(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(A) represent sample spaces for simple and compound events using lists and tree diagrams	(i) represent sample spaces for simple events using lists		
(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(A) represent sample spaces for simple and compound events using lists and tree diagrams	(ii) represent sample spaces for simple events using tree diagrams		
(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(A) represent sample spaces for simple and compound events using lists and tree diagrams	(iii) represent sample spaces for compound events using lists		



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(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(C) make predictions and determine solutions using experimental data for simple and compound events	(iv) determine solutions using experimental data for compound events		
(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(D) make predictions and determine solutions using theoretical probability for simple and compound events	(i) make predictions using theoretical probability for simple events		
(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(D) make predictions and determine solutions using theoretical probability for simple and compound events	(ii) make predictions using theoretical probability for compound events		
(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(D) make predictions and determine solutions using theoretical probability for simple and compound events	(iii) determine solutions using theoretical probability for simple events		

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(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(D) make predictions and determine solutions using theoretical probability for simple and compound events	(iv) determine solutions using theoretical probability for compound events		
(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(E) find the probabilities of a simple event and its complement and describe the relationship between the two	(i) find the probabilities of a simple event and its complement		
(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(E) find the probabilities of a simple event and its complement and describe the relationship between the two	(ii) describe the relationship between [a simple event and its complement]		
(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(F) use data from a random sample to make inferences about a population			

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(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(G) solve problems using data represented in bar graphs, dot plots, and circle graphs, including part-to-whole and part-to-part comparisons and equivalents	(i) solve problems using data represented in bar graphs including part-to-whole comparisons		
(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(G) solve problems using data represented in bar graphs, dot plots, and circle graphs, including part-to-whole and part-to-part comparisons and equivalents	(ii) solve problems using data represented in bar graphs including part-to-part comparisons		
(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(G) solve problems using data represented in bar graphs, dot plots, and circle graphs, including part-to-whole and part-to-part comparisons and equivalents	(iii) solve problems using data represented in bar graphs including equivalents		
(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(G) solve problems using data represented in bar graphs, dot plots, and circle graphs, including part-to-whole and part-to-part comparison part-T dottlfort-5dcess			

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(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(G) solve problems using data represented in bar graphs, dot plots, and circle graphs, including part-to-whole and part-to-part comparisons and equivalents	(v) solve problems using data represented in dot plots including part-to-part comparisons		
(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(G) solve problems using data represented in bar graphs, dot plots, and circle graphs, including part-to-whole and part-to-part comparisons and equivalents	(vi) solve problems using data represented in dot plots including equivalents		
(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(G) solve problems using data represented in bar graphs, dot plots, and circle graphs, including part-to-whole and part-to-part comparisons and equivalents	(vii) solve problems using data represented in circle graphs, including part-to-whole comparisons		
(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(G) solve problems using data represented in bar graphs, dot plots, and circle graphs, including part-to-whole and part-to-part comparisons and equivalents	(viii) solve problems using data represented in circle graphs, including part-to-part comparisons		

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(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. MCID 5/MCID 9as(statistics tg2n onal)TJT/k				

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(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(I) determine experimental and theoretical probabilities related to simple and compound events using data and sample spaces	(iv) determine experimental probabilities related to compound events using sample spaces		
(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(I) determine experimental and theoretical probabilities related to simple and compound events using data and sample spaces	(v) determine theoretical probabilities related to simple events using data		
(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(I) determine experimental and theoretical probabilities related to simple and compound events using data and sample spaces	(vi) determine theoretical probabilities related to simple events using sample spaces		
(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(I) determine experimental and theoretical probabilities related to simple and compound events using data and sample spaces	(vii) determine theoretical probabilities related to compound events using data		

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(6) Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	(I) determine experimental and theoretical probabilities related to simple and compound events using data and sample spaces	(viii) determine theoretical probabilities related to compound events using sample spaces		
(7) Expressions, equations, and relationships. The student applies mathematical process standards to represent linear relationships using multiple representations. The student is expected to:	(A) represent linear relationships using verbal descriptions, tables, graphs, and equations that simplify to the form $y = mx + b$	(i) represent linear relationships using verbal descriptions		
(7) Expressions, equations, and relationships. The student applies mathematical process standards to represent linear relationships using multiple representations. The student is expected to:	(A) represent linear relationships using verbal descriptions, tables, graphs, and equations that simplify to the form $y = mx + b$	(ii) represent linear relationships using tables		
(7) Expressions, equations, and relationships. The student applies mathematical process standards to represent linear relationships using multiple representations. The student is expected to:	(A) represent linear relationships using verbal descriptions, tables, graphs, and equations that simplify to the form $y = mx + b$	(iii) represent linear relationships using graphs		
(7) Expressions, equations, and relationships. The student applies mathematical process standards to represent linear relationships using multiple representations. The student is expected to:	(A) represent linear relationships using verbal descriptions, tables, graphs, and equations that simplify to the form $y = mx + b$	(iv) represent linear relationships using equations that simplify to the form $y = mx + b$		

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(8) Expressions, equations, and relationships. The student applies mathematical process standards to develop geometric relationships with volume. The student is expected to:	(A) model the relationship between the volume of a rectangular prism and a rectangular pyramid having both congruent bases and heights and connect that relationship to the formulas	(i) model the relationship between the volume of a rectangular prism and a rectangular pyramid having both congruent bases and heights		
(8) Expressions, equations, and relationships. The student applies mathematical process standards to develop geometric relationships with volume. The student is expected to:	(A) model the relationship between the volume of a rectangular prism and a rectangular pyramid having both congruent bases and heights and connect that relationship to the formulas	(ii) connect that relationship to the formulas		
(8) Expressions, equations, and relationships. The student applies mathematical process standards to develop geometric relationships with volume. The student is expected to:	(B) explain verbally and symbolically the relationship between the volume of a triangular prism and a triangular pyramid having both congruent bases and heights and connect that relationship to the formulas	(i) explain verbally the relationship between the volume of a triangular prism and a triangular pyramid having both congruent bases and heights		
(8) Expressions, equations, and relationships. The student applies mathematical process standards to develop geometric relationships with volume. The student is expected to:	(B) explain verbally and symbolically the relationship between the volume of a triangular prism and a triangular pyramid having both congruent bases and heights and connect that relationship to the formulas	(ii) explain symbolically the relationship between the volume of a triangular prism and a triangular pyramid having both congruent bases and heights		
(8) Expressions, equations, and relationships. The student applies mathematical process standards to develop geometric relationships with volume. The student is expected to:	(B) explain verbally and symbolically the relationship between the volume of a triangular prism and a triangular pyramid having both congruent bases and heights and connect that relationship to the formulas	(iii) connect that relationship to the formulas		

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TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(8) Expressions, equations, and relationships. The student applies mathematical process standards to develop geometric relationships with volume. The student is expected to:	(C) use models to determine the approximate formulas for the circumference and area of a circle and connect the models to the actual formulas	(i) use models to determine the approximate formulas for the circumference of a circle		
(8) Expressions, equations, and relationships. The student applies mathematical process standards to develop geometric relationships with volume. The student is expected to:	(C) use models to determine the approximate formulas for the circumference and area of a circle and connect the models to the actual formulas	(ii) use models to determine the approximate formulas for the area of a circle		
(8) Expressions, equations, and relationships. The student applies mathematical process standards to develop geometric relationships with volume. The student is expected to:	(C) use models to determine the approximate formulas for the circumference and area of a circle and connect the models to the actual formulas	(iii) connect the models to the actual formulas		
(9) Expressions, equations, and relationships. The student applies mathematical process standards to solve geometric problems. The student is expected to:	(A) solve problems involving the volume of rectangular prisms, triangular prisms, rectangular pyramids, and triangular pyramids	(i) solve problems involving the volume of rectangular prisms		
(9) Expressions, equations, and relationships. The student applies mathematical process standards to solve geometric problems. The student is expected to:	(A) solve problems involving the volume of rectangular prisms, triangular prisms, rectangular pyramids, and triangular pyramids	(ii) solve problems involving the volume of triangular prisms		

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(9) Expressions, equations, and relationships. The student applies mathematical process standards to solve geometric problems. The student is expected to:	(A) solve problems involving the volume of rectangular prisms, triangular prisms, rectangular pyramids, and triangular pyramids	(iii) solve problems involving the volume of rectangular pyramids		
(9) Expressions, equations, and relationships. The student applies mathematical process standards to solve geometric problems. The student is expected to:	(A) solve problems involving the volume of rectangular prisms, triangular prisms, rectangular pyramids, and triangular pyramids	(iv) solve problems involving the volume of triangular pyramids		
(9) Expressions, equations, and relationships. The student applies mathematical process standards to solve geometric problems. The student is expected to:	(B) determine the circumference and area of circles	(i) determine the circumference of circles		
(9) Expressions, equations, and relationships. The student applies mathematical process standards to solve geometric problems. The student is expected to:	(B) determine the circumference and area of circles	(ii) determine the area of circles		
(9) Expressions, equations, and relationships. The student applies mathematical process standards to solve geometric problems. The student is expected to:	(C) determine the area of composite figures containing combinations of rectangles, squares, parallelograms, trapezoids, triangles, semicircles, and quarter circles			
(9) Expressions, equations, and relationships. The student applies mathematical process standards to solve geometric problems. The student is expected to:	(D) solve problems involving the lateral and total surface area of a rectangular prism, rectangular pyramid, triangular prism, and triangular pyramid by determining the area of the shape's net	(i) solve problems involving the lateral surface area of a rectangular prism by determining the area of the shape's net		

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(9) Expressions, equations, and relationships. The student applies mathematical process standards to solve geometric problems. The student is expected to:	(D) solve problems involving the lateral and total surface area of a rectangular prism, rectangular pyramid, triangular prism, and triangular pyramid by determining the area of the shape's net	(ii) solve problems involving the lateral surface area of a rectangular pyramid by determining the area of the shape's net		
(9) Expressions, equations, and relationships. The student applies mathematical process standards to solve geometric problems. The student is expected to:	(D) solve problems involving the lateral and total surface area of a rectangular prism, rectangular pyramid, triangular prism, and triangular pyramid by determining the area of the shape's net	(iii) solve problems involving the lateral surface area of a triangular prism by determining the area of the shape's net		
(9) Expressions, equations, and relationships. The student applies mathematical process standards to solve geometric problems. The student is expected to:	(D) solve problems involving the lateral and total surface area of a rectangular prism, rectangular pyramid, triangular prism, and triangular pyramid by determining the area of the shape's net	(iv) solve problems involving the lateral surface area of a triangular pyramid by determining the area of the shape's net		
(9) Expressions, equations, and relationships. The student applies mathematical process standards to solve geometric problems. The student is expected to:	(D) solve problems involving the lateral and total surface area of a rectangular prism, rectangular pyramid, triangular prism, and triangular pyramid by determining the area of the shape's net	(v) solve problems involving the total surface area of a rectangular prism by determining the area of the shape's net		
(9) Expressions, equations, and relationships. The student applies mathematical process standards to solve geometric problems. The student is expected to:	(D) solve problems involving the lateral and total surface area of a rectangular prism, rectangular pyramid, triangular prism, and triangular pyramid by determining the area of the shape's net	(vi) solve problems involving the total surface area of a rectangular pyramid by determining the area of the shape's net		
(9) Expressions, equations, and relationships. The student applies mathematical process standards to solve geometric problems. The student is expected to:	(D) solve problems involving the lateral and total surface area of a rectangular prism, rectangular pyramid, triangular prism, and triangular pyramid by determining the area of the shape's net	(vii) solve problems involving the total surface area of a triangular prism by determining the area of the shape's net		

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(9) Expressions, equations, and relationships. The student applies mathematical process standards to solve geometric problems. The student is expected to:	(D) solve problems involving the lateral and total surface area of a rectangular prism, rectangular pyramid, triangular prism, and triangular pyramid by determining the area of the shape's net	(viii) solve problems involving the total surface area of a triangular pyramid by determining the area of the shape's net		
(10) Expressions, equations, and relationships. The student applies mathematical process standards to use one-variable equations and inequalities to represent situations. The student is expected to:	(A) write one-variable, two-step equations and inequalities to represent constraints or conditions within problems	(i) write one-variable, two-step equations to represent constraints or conditions within problems		
(10) Expressions, equations, and relationships. The student applies mathematical process standards to use one-variable equations and inequalities to represent situations. The student is expected to:	(A) write one-variable, two-step equations and inequalities to represent constraints or conditions within problems	(ii) write one-variable, two-step inequalities to represent constraints or conditions within problems		
(10) Expressions, equations, and relationships. The student applies mathematical process standards to use one-variable equations and inequalities to represent situations. The student is expected to:	(B) represent solutions for one-variable, two-step equations and inequalities on number lines	(i) represent solutions for one-variable, two-step equations on number lines		
(10) Expressions, equations, and relationships. The student applies mathematical process standards to use one-variable equations and inequalities to represent situations. The student is expected to:	(B) represent solutions for one-variable, two-step equations and inequalities on number lines	(ii) represent solutions for one-variable, two-step inequalities on number lines		

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TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(10) Expressions, equations, and relationships. The student applies mathematical process standards to use one-variable equations and inequalities to represent situations. The student is expected to:	(C) write a corresponding real-world problem given a one-variable, two-step equation or inequality			
(11) Expressions, equations, and relationships. The student applies mathematical process standards to solve one-variable equations and inequalities. The student is expected to:	(A) model and solve one-variable, two-step equations and inequalities	(i) model one-variable, two-step equations		
(11) Expressions, equations, and relationships. The student applies mathematical process standards to solve one-variable equations and inequalities. The student is expected to:	(A) model and solve one-variable, two-step equations and inequalities	(ii) model one-variable, two-step inequalities		
(11) Expressions, equations, and relationships. The student applies mathematical process standards to solve one-variable equations and inequalities. The student is expected to:	(A) model and solve one-variable, two-step equations and inequalities	(iii) solve one-variable, two-step equations		
(11) Expressions, equations, and relationships. The student applies mathematical process standards to solve one-variable equations and inequalities. The student is expected to:	(A) model and solve one-variable, two-step equations and inequalities	(iv) solve one-variable, two-step inequalities		

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(11) Expressions, equations, and relationships. The student applies mathematical process standards to solve one-variable equations and inequalities. The student is expected to:	(B) determine if the given value(s) make(s) one-variable, two-step equations and inequalities true	(i) determine if the given value(s) make(s) one-variable, two-step equations true		
(11) Expressions, equations, and relationships. The student applies mathematical process standards to solve one-variable equations and inequalities. The student is expected to:	(B) determine if the given value(s) make(s) one-variable, two-step equations and inequalities true	(ii) determine if the given value(s) make(s) one-variable, two-step inequalities true		
(11) Expressions, equations, and relationships. The student applies mathematical process standards to solve one-variable equations and inequalities. The student is expected to:	(C) write and solve equations using geometry concepts, including the sum of the angles in a triangle, and angle relationships	(i) write equations using geometry concepts, including the sum of the angles in a triangle		
(11) Expressions, equations, and relationships. The student applies mathematical process standards to solve one-variable equations and inequalities. The student is expected to:	(C) write and solve equations using geometry concepts, including the sum of the angles in a triangle, and angle relationships	(ii) write equations using angle relationships		
(11) Expressions, equations, and relationships. The student applies mathematical process standards to solve one-variable equations and inequalities. The student is expected to:	(C) write and solve equations using geometry concepts, including the sum of the angles in a triangle, and angle relationships	(iii) solve equations using geometry concepts, including the sum of the angles in a triangle		

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(11) Expressions, equations, and relationships. The student applies mathematical process standards to solve one-variable equations and inequalities. The student is expected to:	(C) write and solve equations using geometry concepts, including the sum of the angles in a triangle, and angle relationships	(iv) solve equations using angle relationships		
(12) Measurement and data. The student applies mathematical process standards to use statistical representations to analyze data. The student is expected to:	(A) compare two groups of numeric data using comparative dot plots or box plots by comparing their shapes, centers, and spreads	(i) compare two groups of numeric data using comparative dot plots or box plots by comparing their shapes		
(12) Measurement and data. The student applies mathematical process standards to use statistical representations to analyze data. The student is expected to:	(A) compare two groups of numeric data using comparative dot plots or box plots by comparing their shapes, centers, and spreads	(ii) compare two groups of numeric data using comparative dot plots or box plots by comparing their centers		
(12) Measurement and data. The student applies mathematical process standards to use statistical representations to analyze data. The student is expected to:	(A) compare two groups of numeric data using comparative dot plots or box plots by comparing their shapes, centers, and spreads	(iii) compare two groups of numeric data using comparative dot plots or box plots by comparing their spreads		
(12) Measurement and data. The student applies mathematical process standards to use statistical representations to analyze data. The student is expected to:	(B) use data from a random sample to make inferences about a population	cb,0odat/AC.om c919 2 BDC 16.878 4.919	8murse Title	

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TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(12) Measurement and data. The student applies mathematical process standards to use statistical representations to analyze data. The student is expected to:	(C) compare two populations based on data in random samples from these populations, including informal comparative inferences about differences between the two populations			
(13) Personal financial literacy. 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. The student is expected to:	(A) calculate the sales tax for a given purchase and calculate income tax for earned wages	(i) calculate the sales tax for a given purchase		
(13) Personal financial literacy. 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. The student is expected to:	(A) calculate the sales tax for a given purchase and calculate income tax for earned wages	(ii) calculate income tax for earned wages		
(13) Personal financial literacy. 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. The student is expected to:	(B) identify the components of a personal budget, including income; planned savings for college, retirement, and emergencies; taxes; and fixed and variable expenses, and calculate what percentage each category comprises of the total budget	(i) identify the components of a personal budget, including income; planned savings for college, retirement, and emergencies; taxes; and fixed and variable expenses		

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TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(13) Personal financial literacy. 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. The student is expected to:	(D) use a family budget estimator to determine the minimum household budget and average hourly wage needed for a family to meet its basic needs in the student's city or another large city nearby	(i) use a family budget estimator to determine the minimum household budget needed for a family to meet its basic needs in the student's city or another large city nearby		
(13) Personal financial literacy. 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. The student is expected to:	(D) use a family budget estimator to determine the minimum household budget and average hourly wage needed for a family to meet its basic needs in the student's city or another large city nearby	(ii) use a family budget estimator to determine the average hourly wage needed for a family to meet its basic needs in the student's city or another large city nearby		
(13) Personal financial literacy. 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. The student is expected to:	(E) calculate and compare simple interest and compound interest earnings	(i) calculate simple interest earnings		
(13) Personal financial literacy. 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. The student is expected to:	(E) calculate and compare simple interest and compound interest earnings	(ii) calculate compound interest earnings		

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TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(13) Personal financial literacy. 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. The student is expected to:	(F) analyze and compare monetary incentives, including sales, rebates, and coupons	(iv) compare monetary incentives, including sales		
(13) Personal financial literacy. 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. The student is expected to:	(F) analyze and compare monetary incentives, including sales, rebates, and coupons	(v) compare monetary incentives, including rebates		
(13) Personal financial literacy. 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. The student is expected to:	(F) analyze and compare monetary incentives, including sales, rebates, and coupons	(vi) compare monetary incentives, including coupons		