"Such As" StatementsKindergarten – Grade 8

This document contains the "such as" statements that were incluided review committees' final recommendations for revisions to the mathematicsTexas Essential Knowledge and SRIEKS Such as statements are possible illustrative examples and are not required to be included in instruction in the EKS. This document is intended to serve as a resource for teachers in designing instructione view end mathematics TEKS.

§111.2,Kindergarten

	Knowledgeand Skill Statement/Student Expectation (as adopted in 201)2	Student Expectation Including Original "Such As" Statemen
(6)	Geometry and measurement. The student applies mathematica process standards to analyze attributes of tolio nensional shapes and threedimensional sods to develop generalizations about their properties. The student is expected to:	
(6)(C)	identify two-dimensional components of threetimensional objects;	identify two-dimensional components of threetimensional objectssuch as the face of a tissbex is a rectangle
(6)(D)	identify attributes of twodimensionachapesusing informal and formal geometric language interchangeably;	identify attributes of twodimensional shapes using informal and formal geometric language interchangeably has number of cornersor vertices and number of sides
(9)	Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectiv for lifetime financial security. The student is expected to:	ely
(9)(C)	list simple skills required for jobs; and	list simple skills required for jobsich as bus driver, librarian,

<u>§111.3,Grade1</u>

	Knowledge and Skill Statement/Student Expectation (as adopted in 2012)	Student Expectation Including Origin#Such As" Stement
(2)	Number and operations. The student applies mathematical pro- standards to represent and compare whole numbers, the relativ position and magnitude of whole numbers, and relationships within the numeration system related to place value. The studen is expected to:	re nt
(2)(A)	recognize instantly the quantity st ructured arrangements;	recognize instantly the quantity of structurædrangements such as seen on a die or a ten frame
(5)	Algebraic reasoning. The student plies mathematical process standards to identify and apply number patterns within propertie of numbers and operations in order to describe relationships. To student is expected to:	es ne
(5)(G)	apply properties of operations to add and subtract two homee numbers.	apply properties of operations add and subtract two or thre numbers such as if $2 + 3 = 5$ is known, then $3 + 2 = 5$
(6)	Geometry and measurement. The student applies mathematica process standards to analyze attributes of twim ensional shapes and threedimensional solids to develop generalizations about their properties. The student is expected to:	

(6)(B)

(6)(G)	partition two-dimensional figures into two and four fair shares or
	equal parts and describe the parts using wo or

§111.4,Grade2

	Knowledge and Skill Statement/Student Expectation (as adopted in 2012)	Student Expectation Including Original "Such As" Statement
(3)	Number and operations. The student applieathematical process standards to recognize and represent fractional units and communicates how they are used to name parts of a whole. Th student is expected to:	e
(3)(A)	partition objects into equal parts and name the parts, including halves, fourtls, and eighths, using words;	partition objectssuch as strips, lines, regular polygons, and circlesinto equal parts and name the parts, including halves, fourths, and eighths, using words such as "or "three-fourths";
(3)(C)	use concrete mo els to count fractional parts beyond one whole using words and recognize how many parts it takes to equal on whole; and	use concrete models to count fractional parts beyond one whole using wordsuch as "one ourth," "two-fourths," e"three-fourths," "four-fourths," "five-fourths," or "one and one-fourth," and recognize how many parts it takes to equal one wholesuch as four fourths equals one whole and

(8)

(9)(A)	find the length of objects using concrete models for standard ur of length;	find the length of objects using concrete models for standau its units of length such as the edges of inch tiles or centimeter cubes
(9)(B)	describe the inverse relationship between the size of the unit ar the number of units needed to equal the length of an object;	describe the inverse relationship between the size of the ur adand the number of units needed to equal the length of an object such as the longer the unit, the fewer needed and the shorter the unit, the more needed
(9)(F)	useconcrete models of square units to find the area of a rectan by covering it with no gaps or overlaps, counting to find the tota number of square units, and describing the measurement using number and the unit; and	use concrete models of square unitsfind the area of a rectangle by covering it with no gaps or overlaps, counting to find the total number of square units, and describing the measurement using a number and the unitch as 24 square units; and
(11)	Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effective for lifetime financial security. The student is expected to:	ely
(11)(F)	differentiate between producers and consumers and calculate t cost to produce a simple item.	differentiate between producers and consumers and calcula the cost to produce a simple item such as a shirt, a pitcher o lemonade, or a class art project

<u>§111.5,Grade3</u>

	Knowledge and Skill Statement/Student Expectation (as adopted in 2012)	Student Expectation Including Original "Such As" Statement
(2)	Number and operations. The student applies mathematical pro- standards to represent and compare whole numbers and understand relationships related to place value. The student is expected to: represent a number on a number li as being between two	represent a number on a number lin asbeanbttento
(2)(C)		

<u>§111.6,Grade4</u>

	Knowledge and Skill Statement/Student Expectation (as adopted in 2012)	Student Expectation Including Original "Such As" Statement
(2)	Number and operations. The student applies mathematical process standards to represent, compare, and order whole numbers and decimals and understand relationships related place value. The student is expected to:	10
(2)(B)	represent the value of the digit in whole numbers through 1,000,000,000 and decimals to the hundredths using expand notation and numerals;	represent the value of the digit in whole numbers through 1,000,000,000 and decimals to the hundredths using expanded notation and numerals uch as in the number 3.94, the 3 in the ones place is 3; the 9 in the tenths place is 0.9; and the 4 in the hundredths place is 0.04; and 3.94 is the sum of 3 ones, 9 tenths and 4 hundredths
(3)	Number and operations. The student applies mathematical process standards to represent and generate fractions to solv problems. The student is expected to:	ve
(3)(B)	decompose a fraction in more than one way into a sum of fractions with the same denominator using concrete and pictorial models and recording results with symbolic representations;	decompose a fraction in more than one way into a sum of fractions with the same denominator using concrete and pictorial models and recording results with symbolic representations uch as $7/8 = 5/8 + 2/8$; $7/8 = 3/8 + 4/8$; $27/8 = 1 + 1 + 7/8$; $27/8 = 8/8 + 8/8 + 7/8$
(3)(C)	determine if two given fractions are equivalent using ariety of methods;	determine if two given fractions are equivalent using a variety methods includingmultiplyingby a fraction equivalent to one or simplifying a fraction to lowest terms
(3)(E)	represent and solve addition and subtraction of fractions with equal denominators using objects and pictorial models that b to the number line and properties of operations;	represent and solve addition and subtraction of fractions with equal denominatorsusingobjects and pictorial models that build to the number linesuch as strip diagrams and properties of operations;
(5)	Algebraic reasoning. The student applies mathematical proce	ess

(5)

(5)(B)	represent problems using an inpottput table and numerical	represent problems using an inpotutput table and numerical expressions to generate a number pattern that follows a given
	expressions to generate a number pattern that follows a given rule representing such as given the rule "Add 3" and the starting rule representing the relationship of the values in the resulting number 1, use the expressions 1 + 3, 2 + 3, 3 + 3, and so forth	
	sequence and their position in the sequ e nc	generate a table to represent the relationship of the values in
		the resulting sequence and their position in the sequence;
(7)	Geometry and measurement. The student applies mathemati process standards to solve problems involving angles less the equal to 180 degrees. The student is expected to:	cal an or
(7)(E)	determine the measure of an unknown angle formed by two non-overlapping adjacent angles given one or both angle measures.	decomposænglessuch as complementary and supplementary angles into two norøverlapping angles to determine the measure of an unknown angle formed by two røvrerlapping adjacent angles given one or both angle measures.

§111.7Grade5

Knowledge and Skistatement/Student Expectation

<u>§111.26 Grade 6</u>

§111.27Grade7

	Knowledge and Skill Statement/Student Expectation (as adopted in 2012)	Student Expectation Including Original "Such As" Statemen
(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 extend previous knowledge of sets and subsets using a visual representation describe relationships betweessets of rational numbers.	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 extend previous knowledge of sets and subsets using a visual repression such as a Venn diagram to describe relationships between sets of rational numbers.
(4)	Proportionality. The student applies mathematical process standards to represent and solve problems involving proportional relationships. The studenteixpected to:	
(4)(D)	solveproblems involving ratios, rates, and percents, including multi-step problems involving percent increase and percent decrease and financial literacy problems; and	solve problems involving ratios, rates, and percents, iningud multi-step problems involving percent increase and percent decrease, and financial literacy problems has tax, tip, discount, simple interest, and commissionand

§111.28 Grade8

	Knowledge and Skill Statement/Student Expectation (as adopted in 2012)	Student Expectation Including Original "Such As" Statemen
(2)	Number and operations. The student applies mathematical process standards to represent and use real numbers in a va of forms. The student is expected to:	riety

(2)(A)

Personal financial literacy. The student applies mathematical

(12)