

TEXAS STANDARDIZED CURRICULUM FRAMEWORK

Adult Basic Skills - Mathematics – Level 6.0 – 8.9 Literacy Completion Point G

Student Name: _____ Student ID Number: _____

Entry Date: _____ Completion Date: _____

The student is able to ...

Standard 34	
Solve problems using fractions	
Date: _____ Instructor: _____	
34.1	Understands verbal names, written word names, and standard numbers with fractions
34.2	Locates fractions on a number line
34.3	Understands the relative size of fractions
34.4	Solves word problems that create fractions
34.5	Adds whole numbers, fractions, and mixed numbers with and without common denominators
34.6	Subtracts whole numbers, fractions & mixed numbers with no regrouping
34.7	Subtracts whole numbers, fractions, and mixed numbers with regrouping
34.8	Multiplies common mixed fractions, mixed numbers, and whole numbers
34.9	Divides fractions
34.10	Divides whole numbers, fractions, and mixed numbers
34.11	Performs multiple operations using common fractions, mixed numbers, and whole numbers
34.12	Selects the appropriate operation to solve problems with fractions
34.13	Solves word problems using fractions

Standard 35	
Solve problems using decimals	
Date: _____ Instructor: _____	
35.1	Locates decimals on a number line
35.2	Orders a sequence of decimal numbers from smallest to largest
35.3	Multiplies a decimal by a whole number or another decimal
35.4	Divides a decimal by a whole number
35.5	Divides a decimal by a decimal
35.6	Divides a whole number by a decimal
35.7	Converts mixed numbers to decimal fractions
35.8	Selects the appropriate operation to solve problems with decimals
35.9	Solves word problems using decimals

Standard 36	
Solve problems using ratios and proportions	
Date: _____ Instructor: _____	
36.1	Understands verbal names, written word names, and standard numbers with ratios
36.2	Understands the concept of a ratio and proportion
36.3	Solves word problems with ratios
36.4	Understands that ratios can be represented in different ways
36.5	Selects when to solve specific problems by using ratios and proportions
36.6	Solves word problems involving ratios and proportions
36.7	Demonstrates the process of cross-multiplying to solve proportions

Standard 37	
Solve problems using percents	
Date: _____ Instructor: _____	
37.1	Understands verbal names, written word names, and standard numbers with percents
37.2	Understands the relative size of percents
37.3	Solves word problems with percents
37.4	Understands that percents can be represented in different ways
37.5	Converts between fractions, decimals, and percents
37.6	Finds a percent of a number
37.7	Finds what percent one number is of another
37.8	Finds the total when a percent is given
37.9	Solves real-world problems involving percents
37.10	Determines sales tax on a purchase when given the tax rate
37.11	Uses the interest formula ($i = prt$)

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The student is able to ...

Standard 38	
Solve problems using integers	
Date: _____ Instructor: _____	
38.1	Associates verbal names, written word names, and standard numbers with integers
38.2	Solves words problems using integers
38.3	Locates numbers on a number line
38.4	Understands the relative size of integers
38.5	Adds integers
38.6	Subtracts integers
38.7	Multiplies integers
38.8	Divides integers
38.9	Solves simple problems by applying the algebraic order of operations
38.10	Selects the appropriate operation to solve specific problems using integers
38.11	Solves word problems involving integers
38.12	Finds square of numbers 1-20
38.13	Finds square roots of perfect squares
38.14	Writes algebraic expressions (for example: $2x$, $2m - 10$)
38.15	Solves one step equations involving any of the mathematical operations (for example: $x + 9 - 27 = 2$, $x/4 = 3$, $x - (-4) = 2$)
38.16	Solves two step equations

Standard 39	
Solve problems using geometry	
Date: _____ Instructor: _____	
39.1	Recognizes & understands the basic properties of two and three-dimensional geometric shapes (examples: circle, rectangle, cube, etc.)
39.2	Recognizes types of angles (acute, obtuse, straight, right, reflex)
39.3	Recognizes types of triangles (equilateral, right, scalene, isosceles)
39.4	Knows the number of degrees in a triangle and a quadrilateral
39.5	Uses appropriate geometric vocabulary to write a description of a figure or a picture composed of geometric figures (parallel, perpendicular, similar, congruent)

39.6	Uses geometric formulas for perimeter
39.7	Uses geometric formulas for area
39.8	Uses geometric formula for circumference
39.9	Uses geometric formulas for volume of three-dimensional shapes including cubes, rectangles, solids, and cylinders
39.10	Understands geometric concepts, including flips, slides, turns, enlargements, symmetry, reflections, similarity, perpendicular, parallel
39.11	Predicts and verifies patterns involving tessellation (a covering of a plane with congruent copies of the same pattern with no holes and no overlaps, like floor tiles)
39.12	Solves word problems using a variety of geometric formulas for two and three dimensional shapes

Standard 40	
Use estimation skills to solve problems	
Date: _____ Instructor: _____	
40.1	Predicts results and to check the reasonableness of data
40.2	Solves word problems of length, perimeter, area, mass, volume, and capacity
40.3	Solves word problems of money, time and temperature
40.4	Uses rounding techniques to estimate the solution to an addition or subtraction measurement word problem; then determines the actual result
40.5	Uses a variety of strategies to estimate lengths, widths, time intervals, and money to compare to actual measurements
40.6	Solves word problems by estimating measurements (length, time, weight/mass, temperature, money, perimeter, area & volume) in either U.S. system or in metric units

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Standard 41 Solve problems using measurement	
Date: _____ Instructor: _____	
41.1	Identifies the measurement most appropriate for a given situation
41.2	Converts within the U.S. system of measures for length, weight, or capacity
41.3	Solves linear measurement problems with inches, feet, or yards
41.4	Solves capacity problems with cups, pints, quarts or gallons
41.5	Solves mass/weight problems with ounces, pounds or tons
41.6	Identifies metric units of measure for length, weight/mass, or capacity
41.7	Associates prefixes used in the metric system with their decimal equivalents
41.8	Converts measures within the metric system from one prefix to another
41.9	Solves problems involving units of measure and converts answers to a larger or small unit within either the metric or U.S. system
41.10	Selects and uses appropriate instruments, technology, and techniques to measure quantities in order to achieve specified degrees of accuracy

Standard 42 Understand and apply theories related to numbers	
Date: _____ Instructor: _____	
42.1	Use of primes, factors, and multiples to build number sequence
42.2	Distributive property [for example: $6(4 + 2) = 6 \times 6$]
42.3	Place values
42.4	Roman numerals

Standard 43 Interpret and compare data from graphs, charts and maps	
Date: _____ Instructor: _____	
43.1	Pictographs
43.2	Graphs
43.3	Line graphs
43.4	Circle graphs
43.5	Uses data from charts and tables to solve word problems
43.6	Understands and uses mean and median
43.7	Uses a scale to measure distance on a map
43.8	Uses information from a time zone map
43.9	Uses a map showing time zones to determine the time in two or more time zones

Standard 44 Demonstrate consumer math skills	
Date: _____ Instructor: _____	
44.1	Calculates and compares the unit prices for different sizes of food containers and for different brands using a calculator or pencil and paper
44.2	Uses the sales tax rate to calculate sales tax and total cost of a purchase
44.3	Computes discounts and sale prices
44.4	Interprets interest and interest earning savings plans
44.5	Uses the percentage down, interest rate, and the total purchase price to calculate the actual amount of down payment and balance to be financed on long term purchases
44.6	Calculates a finance charge at a give percentage rate
44.7	Calculates a checkbook balance from a check (use a calculator or paper and pencil)