Community Adult Literacy Benchmarks: Math - Number Sense

	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
Number Sense	-understand and apply the concepts of counting by 2s, 5s, and 10s, up to 100	-understand and apply the concepts of counting by 25s, 50s, and 100s to 1000	-describe and represent whole numbers (up to 1,000,000)	-demonstrate an understanding of percent concretely, pictorially, and symbolically
	-solve 1 and 2-digit addition problems -solve 1 and 2-digit subtraction	-solve 5-digit addition and subtraction problems	→	→
	problems	-solve multiplication problems (3-digit by 1-digit numbers)	-solve multiplication problems (4-digit by 2-digit numbers)	→
		-solve division problems (2-digit by 1-digit numbers)	-solve division problems (4-digit by 2-digit numbers)	→
	-use objects to represent commonly-used fractions. (e.g., 1/2 a chocolate bar)	-represent and describe proper fractions concretely, pictorially, and with number symbols	-add and subtract fractions with common denominators	-add and subtract fractions with unlike denominators -multiply and divide fractions with common denominators
		-understand the relationship between money and decimals	-describe and represent decimals (tenths, hundredths, thousandths) -add and subtract decimals	-multiply and divide decimals
			-convert common fractions to decimals and vice versa	-convert common fractions to decimals and percents and vice versa
	-select the appropriate operation to solve problems involving addition and subtraction of whole numbers	-select the appropriate operation to solve problems using the four operations with whole numbers	-solve real-world problems involving decimals and fractions	-solve real-world problems using fractions and decimals



Community Adult Literacy Benchmarks: Math - Patterns and Relations

	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
Patterns and Relations	-describe, create, reproduce, and extend a repeating pattern, using manipulatives, diagrams, and/or actions (pattern can be from personal experience - schedules,	-describe, create, reproduce, and extend increasing and decreasing patterns, using manipulatives, diagrams, and/or actions	-identify the pattern rule and make predictions	→
	architecture, gardens, quilts)	-identify and describe patterns found in tables and charts. (e.g., multiplication tables) -solve addition and subtraction	-represent and describe patterns, using graphs and tables (e.g., a number plus one, plus two, etc.) -use simple one-step equations to	→
		equations with one unknown variable (e.g., $6 + y = 12$)	solve problems with whole numbers (e.g., $4c = 12$)	



Community Adult Literacy Benchmarks: Math - Space and Shape

	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
Space and Shape	-show awareness of how measurement is used in day-to- day activities	-measure length, perimeter, area, volume, weight, time, and temperature using common standard units	-measure length, perimeter, area, volume, weight, time, and temperature with precision using common standard units	-make common conversions (e.g., miles to kilometers, pounds to kilograms)
	-estimate familiar quantities (e.g., length, volume, weight, time, temperature)		-use formulas to measure the perimeter and area of rectangles and squares	-use formulas to calculate the area and perimeter of parallelograms, triangles, circles, and quadrilaterals
	-compare familiar quantities (e.g., length, volume, weight, time, temperature) using informal comparative language and methods. (e.g., big, bigger, biggest)			
	-recognize, name, and describe common 2-D shapes. (e.g., square, circle, rectangle)	-name, describe, compare, and classify a variety of 2D shapes and 3D objects (e.g., polygons, prisms, pyramids)	-construct 2D shapes and 3D objects	-construct 2D shapes and 3D objects that meet certain criteria



Community Adult Literacy Benchmarks: Math - Statistics and Probability

	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
Statistics and Probability		-collect, organize and record data about self and others, or familiar subjects (e.g., charts, webs, Venn diagram) -describe the likelihood of an outcome, using probability vocabulary such as impossible, possible, against the odds	-choose and use an appropriate method for collecting data to answer a question. (e.g., questionnaire, experiment, observation) -create a bar graph to represent data	-choose and use the most appropriate method to display and analyze data (e.g., circle graphs, scatter plots, stem and leaf plots)

