

Basic Skills Content Standards by Test Item - Form 913M

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CASAS	S Math	1.6.4 6.0.0	4.2.5	2.6.1 6.0.0	4.4.3	2.3.1	1.1.4 6.0.0	4.4.3	1.1.4 2.8.8	6.0.0 1.1.7	1.1.7	1.1.6 2.3.3	2.3.3	1.1.4	6.0.0 6.0.0	6.0.0	2.3.3	1.2.2	2.6.4	<mark>6.U.U</mark> 1.1.4	6.0.0	4.7.4	4.5.1	4.7.4	4.2.1	6.0.0 2.2.4
	Task #	2 5	2	4 4	2	4	5 0	2	32	5 4	5	3 5	0 5	5 3	5 5	0	5 2	2 2	4 (05	5 3	32	3 2	3 2		
	nt Standards (2009) Item #	1 2		4 3	0	, , ,	0 3	0	1 2	3 4	5	6 7	8 9	0	1 2	3	4 5	5 6	7 8	8 9	0 1	1 2	3 4	5 6	5 7	3 3 8 9
M1 M1.1.4	Recognize odd and even numbers						-	\square				-	\square		_			-					_			
M1.1.4	Interpret and use a fraction in context (e.g. as a portion of a whole				-	_	-		-				\square		•			-					_			
	area or set)																									
M1.2.1	Mentally add and subtract positive whole numbers less than 20	•	'										\square		_			_								
M1.2.3	Recognize when a problem situation requires addition or subtraction with multi-digit positive integers and decimal numbers, carry out the computation and interpret the answer in context	•										•														
M1.3.12	Recognize when a problem situation requires multiplying and/or dividing with fractions and mixed numbers, carry out the computation and interpret the answer in context																						•			
M1.3.13	Use estimation strategies to determine reasonable answers to multiplication and division problems involving integers, decimal numbers and fractions (i.e., rounding to nearest multiple, benchmark fractions, etc.)																									
M1.3.6	Recognize when a problem situation requires multiplying and/or dividing with multi-digit positive integers and decimal numbers, carry out the computation accurately and interpret the answer in context									•														•		
M1.4.2	Write and solve proportions for situations where two ratios are equal (e.g. currency conversion)																							•		
M2	Algebra												Π													
M2.2.1	Use notational conventions such as parentheses and the various ways of representing multiplication																		ſ	•						
M2.2.3	Recognize and interpret the different meanings and uses of variables (i.e., $2x + 1 = 7$; $y = 2x + 1$; $A = 1 \times w$; $a + -a = 0$)															•										
M2.3.1	Interpret and write expressions and equations for simple contextual math situations																		•						•	
M2.3.7	Demonstrate understanding of the Cartesian coordinate system by locating and plotting points (x,y) and creating a coordinate plane by drawing the axes and establishing a scale																									•
M3	Geometry												Π													
M3.1.5	Identify and describe specific types of quadrilaterals based on their properties (e.g. : rectangle, square, parallelogram, rhombus)																									•
M3.1.9	Identify common three dimensional shapes of various types			•							Ħ		Ħ												Τ	
M3.3.6	Recognize or create a three-dimensional object from two-dimensional representations (e.g. follow a pattern)														•						•					
M4	Measurement												Π													
M4.1.3	Read the temperature from a thermometer in degrees F or C				Π			Π			Ħ	•	Ħ	Π		Π										
M4.1.4	Read and use analog scales: clocks, meters, gauges, (e.g. read to nearest lb., Kg, ½ lb., ½ Kg etc.)					•																				
M4.1.5	Read and use digital scales: digital clocks, odometers			•				Π			Ħ		Ħ			Π										
M4.1.8	Compare the measure of one object to another (e.g., this is about 3 times as long as that; about 6 of these will fit in there)									•																
M4.2.1	Calculate with and convert between customary US units of linear measurement: inches, feet, yards, miles					1	•																			
M4.2.11	Calculate with and compare temperatures, including those below zero												•				•									
M4.2.2	Calculate with and convert between metric units of linear measurement: meters, centimeters, millimeters, kilometers																			•						
M4.2.5	Calculate with and convert between customary US units of weight; ounces, pounds, tons								•																	
M4.2.8	Calculate with and convert between customary US units of capacity: fluid ounces, cups, pints, quarts, gallons										•		•	·												



Page 2 of 8 CSF

Basic Skills Content Standards by Test Item - Form 913M

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CASAS	Math		1.6.4	6.0.0	2.6.1	6.0.0	4.4.3	7.1.4	6.0.0	4.4.3	2.8.8	6.0.0	1.1.7	1.1.6	2.3.3	1.1.7	1.1.4	6.0.0	6.0.0	2.3.3	1.2.2	2.6.4	6.0.0	1.1.4	4.7.4	4.4.3	4.5.1	4.7.4	1.1.6	4.2.1 6.0.0	2.2.4
		Task #	2	5 2	2 4	4	2	4 5																							
Conte	nt Standards (2009)	Item #	1	2 3	3 4	5	6	7 8	9	1 0	1 1 1 2	1 1 3 4	1 5	1 6	1 7 8	1 1 3 9	2 0	2 2 1 2	2 3	2 4	2 2	2 2	2 8	2 3 9 0	3) 1	3 2	3 3 3 4	3 5	36	33 78	3 4 9 0
M4.3.4	Calculate area of rectangles and other common figures, usir formula	g a given															•														
M5	Statistics, Data Analysis and Probability																									П					
M5.1.1	Identify, count and extract relevant data in lists, tables and o	charts		•	•		•				•			Π							• •	•	Π			П	•	•			
M5.2.7	Compare different samples or groupings (e.g., age, gender) set, or compare individual pieces of data to an overall set or									•																•					



Basic Skills Content Standards by Test Item - Form 914M

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CASAS	Math																											1.8.1 4.5.1
	nt Standards (2009) Task Item																											2 3 3 3 8 9
M1	Number sense		+			Η			0	1 2	34	5	6 7	8	9 0	1	2 3	4	56	6 7	8	9	0 1	2	3 4	56	7	89
M1.1.4	Recognize odd and even numbers		+		+	H		+	H	+	\square	•				$\left \right $	+			+	-		+	\square	+			
M1.1.5	Understand the decimal place value system: read, write, order and compare whole and decimal numbers (e.g., 0.13 > 0.013 because 13/100 > 13/1000)																											
M1.1.8	Interpret and use a fraction in context (e.g. as a portion of a whole area or set)														•							•						
M1.2.3	Recognize when a problem situation requires addition or subtraction with multi-digit positive integers and decimal numbers, carry out the computation and interpret the answer in context					•				•										• •	•		•					
M1.3.12	Recognize when a problem situation requires multiplying and/or dividing with fractions and mixed numbers, carry out the computation and interpret the answer in context	ı			•																				•			
M1.4.4	Know the percent equivalent to common benchmark fractions (½, ¼, $\frac{3}{4}$, $\frac{1}{10}$, $\frac{1}{5}$, etc) and use them interchangeably for solving problems																									•		
M1.4.7	Calculate a missing value from a percent relationship – the percentag the percent, or the base – using paper and pencil or a calculator	e,																			•							
M1.4.8	Understand and solve problems using percents greater than 100% an less than 1%	d																				ľ	•					
M2	Algebra								Π																			
M2.1.1	Recognize the identity, commutative, associative and distributive properties for addition and multiplication as they apply in arithmetic procedures												•	'														
M2.2.3	Recognize and interpret the different meanings and uses of variables (i.e., $2x + 1 = 7$; $y = 2x + 1$; $A = 1 x w$; $a + -a = 0$)																								•			
M2.3.1	Interpret and write expressions and equations for simple contextual math situations																										•	•
M3	Geometry																											
M3.1.9	Identify common three dimensional shapes of various types																							•				
M3.2.1	Identify parallel, perpendicular and intersecting lines										•																	
M3.3.6	Recognize or create a three-dimensional object from two-dimensional representations (e.g. follow a pattern)	I					•																					
M4	Measurement																											
M4.1.1	Identify and use the appropriate units, instruments and techniques for measurement tasks	r								•																		
M4.1.4	Read and use analog scales: clocks, meters, gauges, (e.g. read to nearest lb., Kg, $\frac{1}{2}$ lb., $\frac{1}{2}$ Kg etc.)		•					•																				
M4.1.8	Compare the measure of one object to another (e.g., this is about 3 times as long as that; about 6 of these will fit in there)				•																							
M4.2.11	Calculate with and compare temperatures, including those below zero	•	·						Ц															Ц				
M4.2.12	Estimate equivalents between Fahrenheit and Celsius temperatures																									•		
M4.2.13	Calculate with and convert between units of time: seconds, minutes, hours, days, months, years							•						•														
M4.2.3	Estimate equivalents between customary US and metric units of linea measure	r															•											
M4.2.5	Calculate with and convert between customary US units of weight; ounces, pounds, tons								•																			
M4.2.8	Calculate with and convert between customary US units of capacity: fluid ounces, cups, pints, quarts, gallons																	•	•									
	Interpret scale drawings (e.g. blueprints, maps)															•	T			T								
M4.4.1	interpret searce drawings (e.g. bracprints, maps)																											
M4.4.1 M5	Statistics, Data Analysis and Probability																											

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Basic Skills Content Standards by Test Item - Form 914M

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CASAS Math		3.6.3	1.9.9	4.4.3	1.9.5	2.3.1	6.0.0	1.1.4	3.6.5	1.1.6	6.0.0	6.0.0	4.4.3 6.0.0	2.3.1	2.8.8 1 1 6	2.2.5	1.1.4	4.4.3	1.1.7	2.6.4	4.4.3	6.0.0	4.2.1	6.0.0	4.7.1	2.3.3	6.0.0	1.8.1	4.5.1 6.0.0
	Task #	5	5	2 5	53	3	5 4	5	5 0	3	5 2	0	2 0	5	2 4	1 2	5	2 5	5	4 4	1 2	4	3 2	4	3 () 5	5 3	3 2	3 5
Content Standards (2009)	Item #	1	2	3 4	4 5	6	7 8	9	1 1 0 1	1 2	1 1 3 4	1 5	1 1 6 7	1 8	1 2 9 0	2 2) 1	22	2 2 3 4	2 5	2 2 6 7	2 2 8	2 9	3 3 0 1	3 2	3 3 3 4	33 5	3 3	3 3 7 8	3 4 9 0
M5.1.6 Construct a graph or other visual representation of data						Π																						•	



Basic Skills Content Standards by Test Item - Form 917M

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CACAC	· N/1-1-1-	1.1.6	6.0.0 1.9.3	1.1.7	4.4.3	4.4.3	6.0.0 4 7 4	6.0.0	6.0.0	4.7.4	6.0.0	4.7.2	1.9.3	4.7.4	6.0.0	6.0.0	1.4.6	1.8.1	4.7.1	4.6.4	0.0.0 4.5.6	4.7.2	1.1.4	1.8.1	1.2.2	2.2.5	2.2.5	4.7.1
	Math Task #		52	3	2	2	5 3	2	2 2	2 3	3 3	3 3	2	3 3	3	0 2	2 3	2	3 3	3 5	5 3	5	3 2	2	3 5	2	2 2	2 3
	nt Standards (2009) Item #	1 2	2 3	4	5	6	7 8	9	1 1 0 1	1 1 1 2	1 1 3 4	1 1 4 5	1 6	1 1 7 8	1 9	2 2 0 1	2 2	2 2	2 2 4 5	2 2 6 7	28	2 9	3 3 0 1	3 2	33 34	3 5	3 3 6 7	3 8
M1	Number sense												Ц															
M1.3.6	Recognize when a problem situation requires multiplying and/or dividing with multi-digit positive integers and decimal numbers, carry out the computation accurately and interpret the answer in context											•		•														
M1.4.2	Write and solve proportions for situations where two ratios are equal (e.g. currency conversion)	•																										
M1.4.7	Calculate a missing value from a percent relationship – the percentage, the percent, or the base – using paper and pencil or a calculator								•	•		•								•								
M2	Algebra												Π															Г
M2.1.3	Find the nth term in the sequence in a functional relationship and predict how changes in one quantity will affect another																	•					•	•				
M2.2.10	Solve problems involving life-skill-related and technical formulas (e.g., units x price = cost; d = r x t ; V = I x R)																•											
M2.2.8	Solve simple one-step equations with unknowns (e.g., $n - 7 = 9$; $3x = 24$)																			•	•							
M2.3.1	Interpret and write expressions and equations for simple contextual math situations																		•									•
M2.3.15	Interpret algebraic concepts and terminology used at the secondary level to solve computationally and conceptually challenging multistep problems																										•	
M2.3.5	Interpret and write expressions and equations representing contextual situations including those that involve fractions, decimals, percents and negative numbers																								•			
M2.3.8	Determine the slope of a line and relate it to the rate of change in one quantity with respect to the other								•																			
M2.3.9	Use a graph to answer questions about functional relationships between independent and dependent variables							•																				
M3	Geometry																											
M3.1.8	Identify elements of a circle: center, radius, diameter, arc, chord, sector															•												
M3.2.1	Identify parallel, perpendicular and intersecting lines																										•	
M3.2.2	Describe characteristics of angles formed by two intersecting lines, including complementary and supplementary angles																									•		
M3.2.4	Demonstrate understanding of the 360-degree system of measuring angles and rotation						•																					
M4	Measurement																											
M4.1.8	Compare the measure of one object to another (e.g., this is about 3 times as long as that; about 6 of these will fit in there)	ſ	•	•																								
M4.3.2	Calculate perimeter of rectangles and other common figures																								•			
M4.3.4	Calculate area of rectangles and other common figures, using a given formula						•																					
M4.3.6	Calculate volume and surface area of rectangular and other common shapes, using a given formula																						•					
M4.3.7	Calculate area or volume of irregular or composite shapes by dividing the figure into parts																					•						
M4.4.2	Interpret and use proportions in solving problems involving dimensions or scale													•							•							
M4.5.2	Interpret, calculate and apply rates (e.g., cents/min, \$/sq. ft., mi/gal)												•						•									
M5	Statistics, Data Analysis and Probability																											
M5.2.3	Find summary statistics of a data set, including the mean, median, mode and range and determine how changes in the extreme values affect each of them.		•																									
M5.2.7	Compare different samples or groupings (e.g., age, gender) in a data set, or compare individual pieces of data to an overall set or average				•	•										•												



Page 6 of 8 CSF

Basic Skills Content Standards by Test Item - Form 917M

											C	:AS/	۱s c	Com	pet	enc	cies	for	ea	ch i	ten	n								
CASAS	S Math		1.1.6	0.U.U 1.9.3	1.1.7	4.4.3 4.4.3	6.0.0	4.7.4	6.0.0	4.4.3	4.7.4 6.0.0	1.8.5	4.7.2	1.9.3 4.7.4	4.7.2	6.0.0	6.0.0	4.4.3 1 4 6	1.8.1	4.2.1	4.7.1	4.6.4	0.U.U 4 5 6	4.7.2	1.1.4	1.8.1	1.8.1	1.1.4	2.2.5	4.7.1
		Task #																												
Conte	nt Standards (2009)	Item #	1 2	2 3	4 :	5 6	7	8 9) 1 0	1 1	1 1 2 3	1 4	1 1 5 6	1 1 5 7	1 8	1 9	2 2	2 2 1 2	2 2 3	2 4	2 5	2 2 6 7	2 2 7 8	2 2	3 0	3 1	33 23	3 4	33 56	3 7
M5.3.1	Find all the possible outcomes (sample space) by systematically possible combinations and/or permutations of a number of elen practical situations										•																			
M5.3.3	Identify possible outcomes involving compound events and dete probability of their occurrence by considering whether the even independent (e.g., rolling one die multiple times) or conditional aces from a deck of cards) events	ts are														•														



Basic Skills Content Standards by Test Item - Form 918M

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CASAS	Math		6.0.0 1.1.4	1.1.4					4.7.4																		
	nt Standards (2009)	Task # Item #	3 5 1 2																								
M1	Number sense			\square		H	+		0 1	2 3	4	5	6 7	8 9	9 0	1	2 3	4	56	5 7	8 9	0	1 2	3 .	4 5	6	7 8
M1.3.6	Recognize when a problem situation requires multiplying and/or with multi-digit positive integers and decimal numbers, carry out computation accurately and interpret the answer in context	•				•																	•				
M1.4.3	Find the percent equivalents to fractions and decimals					Π												Π	•							Π	T
M1.4.7	Calculate a missing value from a percent relationship – the percent percent, or the base – using paper and pencil or a calculator	ntage, the								•							•			•							
M2	Algebra																										
M2.1.3	Find the nth term in the sequence in a functional relationship an how changes in one quantity will affect another	d predict						•																		•	
M2.2.10	Solve problems involving life-skill-related and technical formulas x price = cost; d = r x t ; V = I x R)	(e.g., units													•												
M2.2.14	Apply the Pythagorean theorem					Ц								Ц				Ц					•			Ц	
M2.2.3	Recognize and interpret the different meanings and uses of varial $2x + 1 = 7$; $y = 2x + 1$; $A = 1 \times w$; $a + -a = 0$)																					•					
M2.3.1	Interpret and write expressions and equations for simple context situations								•			•															
M2.3.15	Interpret algebraic concepts and terminology used at the seconda to solve computationally and conceptually challenging multistep	problems																			•	'					•
M2.3.5	Interpret and write expressions and equations representing conte situations including those that involve fractions, decimals, percen- negative numbers																										
M2.3.9	Use a graph to answer questions about functional relationships b independent and dependent variables	etween											•														
M3	Geometry																										
M3.1.10	Interpret concepts of similarity, and identify figures that are simil congruent	ar or		•	•																						
M3.1.11	Use concepts and attributes of geometric shapes to find unknown dimensions in figures and applications	n	•																								
M3.1.4	Recognize angles of a triangle have a sum of 180 degrees and use accordingly															•											
M3.2.2	Describe characteristics of angles formed by two intersecting line including complementary and supplementary angles			•																							
M3.2.4	Demonstrate understanding of the 360-degree system of measur and rotation	ing angles															•										
M4	Measurement					Ш												Ш								Ц	
M4.2.1	Calculate with and convert between customary US units of linear measurement: inches, feet, yards, miles		•																								
M4.2.13	Calculate with and convert between units of time: seconds, minu days, months, years	tes, hours,									•																
M4.3.3	Calculate circumference of a circle, using a given formula													•	•												4
M4.3.4	Calculate area of rectangles and other common figures, using a gi formula								•												•						
M4.3.7	Calculate area or volume of irregular or composite shapes by divi figure into parts	J											•						·	1							
M4.4.2	Interpret and use proportions in solving problems involving dime scale	nsions or												•										ľ	•		
M5	Statistics, Data Analysis and Probability																										
M5.1.1	Identify, count and extract relevant data in lists, tables and charts						•																				
M5.2.3	Find summary statistics of a data set, including the mean, mediar and range and determine how changes in the extreme values aff of them.				•																						



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CASAS	S Math		6.0.0	1.1.4	1.1.4	4.4.3	4.4.3	4.4.3	1.8.5 4.7.4	1.2.1	1.8.5 6.0.0	2.3.1	2.2.4	2.2.4 4.7.4	4.7.4	1.1.4	1.0.0 2.2.5	2.2.5	4.4.3	6.0.0	474	4.4.3	4.7.4	4.7.2	4.7.2	6.0.0	4.4.3 4 5 6	6.0.0	5.6.3	4.2.1 4.2.1
		Task #																												
Conte	nt Standards (2009)	Item #	1 1	2 3	4	5 6	7	8	9 1 0	1 1	1 1 2 3	1 4	1 5 (1 1 6 7	1 8	1 9	2 2) 1	2 2	2 3	2 2 4 5	2 2 5 6	2 2 3 7	2 8	2 3 9 0	3) 1	3 2	3 3 3 4	3 5	33	33 78
M5.2.6	Make simple generalizations about a data set, including recogniz clusters and more/less contrasts and identifying trends	ing						•																						
M5.2.7	Compare different samples or groupings (e.g., age, gender) in a compare individual pieces of data to an overall set or average	lata set, or																									•			
M5.3.2	Determine the probability of certain simple events (e.g., in the re tossing a coin or rolling a die) and express the likelihood of an oc as a ratio fraction or a percent										•									•								•		

Reading/Math Task Legend

Task 1 - Forms

Task 2 - Charts, maps, consumer billings, matrices, graphs, tables

Task 3 - Articles, paragraphs, sentences, directions, manuals

Task 4 - Signs, price tags, advertisements, product labels

Task 5 - Measurement scales, diagrams

Listening Item Type Legend

Type 1 - Picture Prompt

Type 2 - Comprehension question

Type 3 - Predict next line of dialogue

Type 4 - Identify true statement based on prompt

_ Criteria

Base container is: Agency (D) 7431 - (DISABLED) American Job Corps Center - College of the Canyons (COC) Interrogation mode is: 'Data from sub-sites' Assessment Forms: 913M, 914M, 917M, 918M Include Prepared By: Yes Include Print Time: Yes Include Criteria Info: Yes Report Sort Order: Form Page Sort Order: Content Standard Report Style Option: Blue Warn if too many pages: Yes Page Orientation: Portrait