## Name: \_\_\_\_\_

Block: \_\_\_\_\_

A.REI.3 Multi-Step Equations and Variables	POINTS:	MASTERY:
on Both Sides		
	E) Colve for y	6) Colve for y
4.) Solve for x:	5.) Solve for x:	6.) Solve for x:
$-17 + \frac{10 + 9x}{2} = 16$	0 = -7(2x - 1) - 7(1 - 3x) - 28	5(x-3) = 4(x-8)
$-17 + \frac{-10}{2} - 10$		
-		
Ans:	Ans:	Ans:

## Middle School Common Core Algebra Test 2: SHOW ALL WORK FOR CREDIT!

A.CED.4 Literal Equations	POINTS:	MASTERY:
7.) Solve for y: 6x + y = 14	8.) Solve for y: -3x – y = 6	<ul> <li>9.) Ms. Adams wants to know how much water she can fill her pool with and can use the formula</li> <li>V = Iwh to find out. What is the height of her pool if the volume is 600 ft<sup>3</sup>, the length is 10 ft and the width is 10 ft?</li> </ul>
Ans:	Ans:	Ans:

A.CED.4 Literal Equations Part 2	POINTS:	MASTERY:
10.) <b>Solve for</b> <i>h</i> : S= Ph + 2B	11.) Solve for <i>l</i> : $S = \frac{1}{2}Pl + B$	12.) Solve for c: $a^2 + b^2 = c^2$
	, 2	
Ans:	Ans:	Ans:

A.REI.3 Proportions and Conversions	POINTS:	MASTERY:
13.) $\frac{12}{3} = \frac{8}{p}$	14.) $\frac{2}{-3} = \frac{4}{6+x}$	15.) $\frac{8}{x+9} = \frac{4}{x+10}$
Ans:	Ans:	Ans:

A.REI.3 Multi-Step Equations and Variables		
on Both Sides Part 2 16.) Solve for m: 2m+5=5(m-7)-3m	17.) Solve for h: 5h - 7 = 3 + 5(h - 2)	18.) Mr. Lentz tried to solve for y in the equation $8x + 2y = -16$ and his work is shown below. Did he make a mistake? If so, circle his mistake and correct it in the box below. 8x + 2y = -16 $\frac{+8x + 8x}{2y} = \frac{-16}{2}$ $y = \frac{8x - 16}{2}$ y = 4x - 8
Ans:	Ans:	
19. Write an equation and solve for the variable specified. Five less than twice a number <b>t</b> equals the sum of another number <b>r</b> and six. Solve for <b>t</b> .	20. What is the solution of <b>A</b> . $\sqrt[3]{x} - 5 = 0$	21. Write an equation and solve for the variable specified. Half the product of a number and 32 is 24 less than 4 times that same number.
	B. $30 + 3x^2 = 537$	

22. The formula  $s = \frac{w-10e}{m}$  is often used by placement services to find keyboarding speeds. In the formula, **s** represents the speed in words per minute, **w** represents the number of words typed, **e** represents the number of errors, and **m** represents the number of minutes typed. If Miguel typed 520 words in 6 minutes and received a keyboard speed of 86 words per minute, how many errors did he make?