DynaNotes Grade 8 Math Eligible TEKS Review & Intervention Program Student Activity Book (includes 95 activities) – *Four Sample Answer Key Pages*

tions and Inequalities.			C2 Coluing Cimultonoouo
BuilderName	Date	Name Date	Linear Equations
Activity 12 – Writing E	equations and Inequalities	Activity 21 – Identifying and Verifying Solutions to Simultaneous Li	Linear Equations
Write a one-variable equation or inequality to represent each	ch of the following situations or models.	For each graph, identify the x-value and y-value that simultaneously satisfy both linear equations. Next, verify	
 Chris is twice the age of Mae. Grace is the same age as Chris. Grace is 9 years older than half of 	 In one month, Ms. Grant earned more money than Mr. Ling. Mr. Ling earned \$25 per hour plus a \$500 	whether or not the solution is correct mathematically. <i>Hint: Substitute the intersection's x-valuand solve. The results should be the same y-value.</i>	lue into each equation
Mae's age. Represent the relationships between Chris' age and Grace's age in terms of Mae's age. m.	bonus for winning the sales contest. Ms. Grant worked the same number of hours and earned \$28	1. The solution's x-value appears to be 2	
Chris' age = Grace's age	per hour. Represent the relationship in terms of hours worked h	The solution's y-value appears to be 1	
$2m = 9 + \frac{1}{2}m$	Ms. Grant's earnings > Mr. Ling's earnings	y = 1.5x - 2 $y = -2$	2x + 5
	28h > 25h + 500	$y = 1.5(2) - 2 \qquad y = -2$	2(2) + 5
2. The area of a triangle is $3b + 2$ square feet, where b		y = 3 - 2 $y = -4$	4 + 5
is the triangle's base. The triangle's height is 8 feet, and the area of any triangle is given by the formula	6. Pauli has at least as many books as Ricardo. Pauli	y=1 $y=1$	
$A = \frac{1}{2}bh$. Write an equation for this situation in terms of b.	has 3 times as many books as Darren. Ricardo has 12 fewer than 4 times as many books as Darren.	Fourtiers: $v = 1.5x - 2$ Fourtiers: $v = 1.5x$	ultaneous linear : + 5.
area of the triangle = area of the triangle	Represent the relationship between the number of Pauli's books and the number of Ricardo's books in	y = -2x + 5	
$3b + 2 = \frac{1}{2}bh$	terms of the number of Darren's books, d.	2. The solution's x-value appears to be <u>3</u>	
$3b + 2 = \frac{1}{2}b(8)$	Pauli's books ≥ Ricardo's books 3 d > 4 d = 12	The solution's <i>y</i> -value appears to be <u>-2</u>	
3. 4 7 7 7	50 2 40 - 12	y = -3x + 7 $y = -3$	x + 1
	7. A blue bag of dimes and quarters has less than	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3 + 1
What equation does this model represent?	half as much money as a red bag of dimes and quarters. The blue bag has 4 times as many dimes	y = -9 + 7 $y = -2$	-2
first row = second row	as quarters. The red bag has exactly 48 quarters and 28 dimes. Represent the relationship in terms of the	y = -2	
4 + x + x + x = x + x + 6	number quarters in the blue bag, q.	Yes, $(3, -2)$ is the solution to the sin equations $y = -3x + 7$ and $y = -x + 7$	multaneous linear 1.
4 + 3x = 2x + 6	value of blue bag < $\frac{1}{2}$ (value of red bag)	y = -x + 1	
	$(q)(0.25) + (4q)(0.1) < \frac{1}{2}[(48)(0.25) + (28)(0.1)]$	3. The solution's x-value appears to be -2	
	$0.25q + 0.4q < \frac{1}{2}(12 + 2.8)$	The solution's v -value appears to be 12	
4. 22 x x x	$0.65q < \frac{1}{2}(14.8)$		r + 20
3 x 41	U.DJ q < 1.4	$y = -6x - 4 \qquad y = 4x$	(-2) + 20
What equation does this model represent?	8. 0.5 <i>c c</i>	y = 16 - 4 $y = -8$	8 + 20
first row – second row = 41	0.95 c	y = 12 $y = 12$	2
22 + 3x - (3 + x) = 41 22 + 3x - 3 - x = 41	What inequality does this model represent?	Yes, (-2, 12) is the solution to the si counting $y = -8x - 4$ and $y = 4x + 4$	simultaneous linear - 20.
19 + 2x = 41	0.5 + 2c < 0.95 + c	Equations: $y = -8x - 4$ y = 4x + 20	
Copyright © 2015 DynaStudy, Inc.	12 Grade 8 Math	Copyright © 2015 DynaStudy, Inc. 21	Grade 8 Math
Solving Simultaneous ar Equations			C3, Volume of Cylinders, Cones, and Spheres
Extender Name	Date	Name Date	Skill Checker
Activity 22 – Real-World Si	imultaneous Linear Equations	A stivity 75 Values of Culinders, Cones, and Subaras Ch	neckup
		Activity /3 – volume of Cylinders, Cones, and Spheres Ch	
The diagram shows a 5-gallon bucket, Bucket A, positioned A has 1 gallon of water, and Bucket B is empty. Water is ad	d over a 10-gallon bucket, Bucket B. At the start, Bucket dded to Bucket A at a rate of 1 gallon per minute. Water	1. Which is NOT an appropriate $\longrightarrow 30 \text{ m} \rightarrow 10^{-1}$ 5. Which statement correctly method to solve for the $\longrightarrow 10^{-1}$ T. the two figures shown below	compares the volumes of ow?
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²*Thumb drive for CD upgrade: add \$8.95 to price; add "-td" to order code.*

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