

Algebra Agenda

2nd 6 weeks ends Thursday!

Stamp

nday	11/2/2015	Objective:	Review	
Mo		Assignment:	Study!!!	
Tuesday	11/3/2015	Objective:	Unit 3 Test	
		Assignment:	None	
Wednesday	11/4/2015	Objective:	Intro to Systems	
		Assignment:	Practice #1-7	
sday		Objective:	Writing Systems	
Thurs	11/5/2015	Assignment:	Practice #1-6	
Friday	11/6/2015	Objective:	Solving by Substitution	
		Assignment:	Practice #1-10 HW 2.5 Due!	

Final Weekly HW Grade: _____

Be wo k	Name: Period:
Monday	thursday
Tuesday	Friday
Wednesday	CHALLENGE

Algebra I -	- Unit 4 – Intro to Systems			
Practice – Intro to Systems				
N ame		Date	_ Period	
Determine if	the given point is a solution to the eq	uation.		
1. (-3, 6)	2x - y = -12	2. $(-1, -4)$ $3y = x -$	11	
	3x + 2y = -3	-2x + y =	-2	

3.	(4, 1)	x + 2y = 6	4. (2, 1)	2x - 5y = -1
		x - y = 3		3x - 4y = -2

Determine the number of solutions for each system. Write "one", "none" or "infinite".

5.
$$y = \frac{2}{3}x - 5$$

 $3y = 2x$
6. $3x + y = 3$
 $2y = -6x + 6$
7. $x + 2y = 5$
 $2x + 4y = 2$

Algebra I – Unit 4 – Intro to Systems

Practice – Writing Systems of Equations

Name

Date

Write the Let Statements and derive a system of equations that could be used to solve each problem.

1. The admission fee at a small fair is \$1.50 for children and \$4.00 for adults. On certain day, 2200 people enter the fair and \$5050 is collected. How many children and how many adults attended?

Period

Let Statements



2. The treasurer of the student body at a college reported that the receipts from a recent concert totaled \$916. Furthermore, he announced that 560 people had attended the concert. Students were charged \$1.25 each for admission to the concert, and adults were charged \$2.25 each. How many adults attended the concert?

Let Statements



3. Elle went to Pet Smart and bought 4 goldfish and 3 turtles for \$28. Later that day, Warren went to Pet Smart and bought 6 goldfish and 1 turtle for \$10. How much does 1 goldfish cost?

Let Statements



4. The perimeter of a rectangle is 40. The width is four less than 5 times the length. Find the dimensions of the rectangle.

Let Statements



5. A pet shop sold a total of 23 puppies and kittens one week. They sold 9 more puppies than kittens. How many of each did they sell?



6. A boy has seven more nickels than quarters. The total value of the coins is \$4.90. Which system could be used to find how many nickels and quarters he has?

A
$$n = 7 + q$$

 $0.05n + 0.25q = 4.90$
B. $n = 7q$
 $n = 7q$
 $n = 7q$
 $n = 7q$
 $n = 7 + q$
 $n = 7 + q$
C $0.05n + 0.25q = 4.90$
D. $n = 7 + q$
 $n + q = 4.90$

		cilica
Find the solution for each system of linear equ	ations.	
1. $\begin{aligned} y &= 2x \\ x + y &= 12 \end{aligned}$	$2. \begin{array}{l} y = 2x - 5\\ 4x + y = 7 \end{array}$	

3. 4y + x = 5x + 4y = 104. If -2x + 3y = 14, then x - y = ?

5. The equations of two lines are 2x - 3y = 12 and x = 4y + 1. What is the value of x in the solution for this system of equations?

Find the solution for each system of linear equations.

8. Tyler is six years older than his sister, and the sum of their ages is 32. How old is Tyler? How old is his sister?

Let Statements



9. What mistake was made in solving the following system of equations?

$$\begin{array}{c}
-3x + y = -4 \\
3y = 15x + 6
\end{array} \qquad y = 3x - 4$$
Step 1: 3(3x - 4) = 15x + 6
Step 2: 9x - 12 = 15x + 6
Step 3: 6 = 24x
Step 4: $\frac{1}{4} = x$

A Did not solve for *y* correctly

- B Did not distribute correctly in Step 1
- C Should have subtracted 9x from 15x in Step 2
- D No mistake was made

10. Given the equations y - 3x = 8 and 3x = 2y + 7, what would you substitute for *y* in the equation 3x = 2y + 7?

A
$$8-3x$$

B $\frac{8}{3}x$
C $8+3x$
D $8 \cdot 3x$

Answer (complete sentence):