Unit 2 Review	NO WORK NO CREDIT!	Name
1.) For her book club, Sharon reads 45 minutes each day. Which expression best represents the number of hours she read in <i>d</i> days? How many hours did she read in 2 weeks?		6.) For a fundraiser, the freshmen class would like to raise more money than the sophomore class. Currently the freshmen have raised \$590 and the sophomores have raised \$675. Which expression shows how much more
a) 45 + <i>d</i> ; 47 <i>hours</i>	c) 45 + <i>d</i> ; 59 <i>hours</i>	a) $F \le 85$ c) $F \ge 85$
b) 45 <i>d</i> ; 90 <i>hours</i>	d) 45 <i>d</i> ; 630 hours	
		b) $F < 85$ d) $F > 85$
2.) For which equation	is $a = 8$ a solution?	
a) 15 – <i>a</i> = 10	c) $10 + a = 23$	7.) Solve for the indicated variable.
b) <i>a</i> – 18 = 26	d) $a + 8 = 16$	a.) $2a + 2b = c$; solve for b
3.) If the fees at Workout Now are \$200 plus \$45 per month and the fees at Community Gym are \$50 plus \$55 per month, then after how many months will the fees for the two months be the same?		b.) $M = T - R$; solve for T
a) 2.5	c) 25	
b) 15	d) 30	
		8.) Solve each inequality and graph the solution.
		5 < x + 31
4.) Evaluate each expression for $a = 7$, $b = -3$, and $c = 5$.		
a.) <i>ac</i> – 8 <i>b</i>	b.) $\frac{21}{a} + b$	
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5.) Solve each equation.		
a.) $17 = x - 3(x + 1)$	b.) $3t + 44 = 50$	9.) Solve the inequality: $-11 - 10x - 11 \ge -11x - 12$
		a) $x > -10$ c) $x \le 10$
		b) $x < -10$ d) $x \ge 10$
c.) $3(x + 1) = 2x + 7$		10.) Tell whether (4, 0) is a solution of $\begin{cases} x - 2y = 4 \\ -x + y = -8 \end{cases}$

11.) The graph below compares the heights of two trees. Use the graph to answer questions 7-8.



How many years after planting will the trees be the same height?

- a) 1 years c) 4 years
- b) 2 years d) 6 years

12.) Solve using any method:
$$\begin{cases} y = x - 2 \\ 2x + y = 4 \end{cases}$$

- a) (0,2) c) *No Solution*
- b) (2,0) d) Infinitely Many Solutions





14.) Solve by elimination: $\begin{cases} 3x - 2y = 4 \\ x + 4y = 34 \end{cases}$