

Homework #3 ~ Sections 2.1 ~ 2.4*Show your work on this paper to receive credit.*

1) Solve: $p - 7 = 12$	2) Solve: $5 + x = 17$	3) Solve: $4y = 112$	4) Solve: $\frac{x}{10} = 7$	5) Solve $y + 1 = -4$
For #s 6 ~ 12, Translate into an algebraic equation and solve for the unknown. Show your equation to get full credit.				
6) The product of a number and six is 48. Write an algebraic equation and solve for the unknown.	7) 150 is what percent of 80?	8) Tristan received three times as many votes as Bailee for class president. If Tristan received 99 votes, how many did Bailee receive?	9) A television that normally sells for \$849 went on sale and sold for \$721.65. What was the percent of discount?	
10) In 2001, there were 200 participants in the annual YMCA Fun Run. By 2006, participation had increased by 12%. How many participants were there in 2006?	11) Cheri started a pre-school; in the 2nd month she added two children. In the 3rd month, she added five children, and in the 4th month she added 8 children. If she has a total of 25 children at the end of the fourth month, How many did she start with?.	12) Thom took his family out to dinner and the bill came to \$85.88. If he decided to tip the waiter 20%, what was the amount of the tip and the total cost of the meal?	13) Simplify: $10(11x)$	
14) Simplify: $12\left(-\frac{1}{3}x\right)$	15) Simplify: $-2.2(-x - 3)$	16) Simplify: $15x(-2x - 3)$	17) Simplify: $18x - (6x + 24)$	
18) Simplify: $2(-y - 6) - (-y + 6)$	19) Simplify: $-\left(\frac{2}{5}a - 14\right) + \left(-\frac{1}{2}a - 3\right)$	20) Solve: $3x - 7 = 29$	21) Solve: $\frac{8c}{11} - 15 = -31$	
22) Solve: $4(-4x) - 2(3x - 8) - 1 = 59$	23) Solve: $\frac{1}{2}(x - 3) - \frac{2}{3}(x + 2) = x + 3$	24) Solve: <u>$2(4x + 5) + 2x = 2(5x + 5)$</u>	25) Solve: $5(3x - 3) - x = 2(7x - 7)$	