Algebra 0507
Chapter 3
Intro to WS # 14   Name_____

Write an equation.   Solve.   Show all work.

$5 \cdot x = -15$

1. Five times a number equals -15. Find the number. Let $x = \#$ $\dfrac{5x}{5} = \dfrac{-15}{5}$ $x = -3$	2. What number subtracted from -10 equals 2? $-10-(-12)=2$ $-10+12=2$ $2=2$ Let $x = \#$ $-10 - x = 2$ $+10 \qquad +10$ $\dfrac{-x}{-1} = \dfrac{12}{-1}$ $x = -12$
3. The product of four and some number is equal to -36. Find the number. Let $x = \#$ $\dfrac{4x}{4} = \dfrac{-36}{4}$ $x = -9$	4. 42 equals the product of -7 and what number? Let $n = \#$ $\dfrac{42}{-7} = \dfrac{-7n}{-7}$ $-6 = n$
5. When five is subtracted from what number the result is -30. Find the number. Let $x = \#$ $x - 5 = -30$ $+5 \qquad +5$ $x = -25$	6. Twice a number decreased by 8 is the same as 2. Find the number. Let $x = \#$ $2x - 8 = 2$ $+8 \quad +8$ $\dfrac{2x}{2} = \dfrac{10}{2}$ $x = 5$ $x = -7 = 21$
7. The sum of 12 and -2 equals what number times 5? Let $x = \#$ $12 + (-2) = 5x$ $12 - 2 = 5x$ $\dfrac{10}{5} = \dfrac{5x}{5}$ $2 = x$	8. What number minus -7 equals 21? Let $x = \#$ $x + (-7) = 21$ $x + 7 = 21$ $-7 \quad -7$ $x = 14$