Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Review Sheet** – Multi Step Equations

1. Solve: $-9(3x+4)$= -225
2. Simplify: $5x-2-3x+9$
3. Translate “*three times the sum of a number and nine*”
4. Solve: $0.75x+4=28$
5. Translate and Solve: “*three times a number plus 14 equals negative seven”*
6. Solve: $\frac{x+4}{12}=\frac{5}{4}$
7. Solve: $8+3x=5x+11+x$
8. Solve: $-5\left(2x-7\right)-x=2\left(x+2\right)-8$
9. Solve **AND** State the properties used to solve the equation:

 $2\left(x+7\right)=-20$

1. Patrick needs a moving truck this weekend to move into his new apartment. Company A charges a $75 rental fee plus $.25 per mile. Company B charges a $55 rental fee plus $.75 per mile.
2. Write an expression to represents Company A’s charges.
3. Write an expression to represent Company B’s charges.
4. Determine at how many miles will the 2 companies charge the same amount.
5. Which company will be cheaper if Patrick only needs the van for 22 miles?

