Practice: U1A L3 Variables in Two Positions	Name: _____ HR: _____

Directions: Solve each equation showing work as demonstrated in class. **Quick Review**

1. $\frac{2}{3}x = 10$ Answer: _____	**2.** $-\frac{3}{5}x = 12$ Answer: _____	**3.** $\frac{7}{4}x = 21$ Answer: _____

Variables in Two Positions - Easy to Moderate

4. $6x + 2x = 40$ Answer: _____	**5.** $9x - 4x = 30$ Answer: _____	**6.** $4x + 7 = 2x + 17$ Answer: _____
7. $7x - 5 = 3x + 15$ Answer: _____	**8.** $8x = 5x + 18$ Answer: _____	**9.** $3x + 12 = 5x + 2$ Answer: _____
10. $10x - 6 = 4x + 24$ Answer: _____	**11.** $5x + 3 = -x + 21$ Answer: _____	**12.** $\frac{1}{2}x + 4 = x - 2$ Answer: _____

Practice: U1A L3 Variables in Two Positions (back)	Name: _____ HR: _____

Directions: Continue solving and justify each step. Problems increase in difficulty.

Variables on Both Sides - Moderate to Challenging

13. $\frac{3}{4}x + 1 = \frac{1}{2}x + 5$ Answer: _____	**14.** $3x + 5x - 2 = 6x + 10$ Answer: _____	**15.** $2x + 7x + 4 = 5x + 28$ Answer: _____

Mixed Review

16. Solve: $x - 9 = 14$ Answer: _____	**17. Solve the following AND name the property(ies) of equality use.** $\frac{5}{6}x = 20$ Properties Used:	**18. Solve the following AND name the property(ies) of equality use.** $4x + 7 = 31$ Properties Used:
19. Given $a = 18$ and $b = -7$, the sum of a and b is 5 more than what number? **Equation:** **What is the number?**	**20. Given $m = -4$ and $n = 9$, the product of m and n is equal to the product of 6 and what number?** **Equation:** **What is the number?**	**21. Given $x = 30$ and $y = -5$, the ratio of x to y is equal to the ratio of 18 to what number?** **Equation:** **What is the number?**