**Unit 1 – Review**

**Solve each equation below. Show all work in the boxes provided.**

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| 1. $\frac{2}{3}+ \frac{3K}{4}= \frac{7}{12}$  | 2. $18x-5=3\left(6x-2\right)$  |
| 3. $9+5a=2a+9$  | 4. $-8x+14=-2(4x-7)$  |
| 5. $2= -\frac{3x-(-4)}{8}$ | 6. $2= -\frac{3x-(-4)}{8}$ |
| 7. $\frac{a-2}{a+5}=\frac{3}{8}$ | 8. 3y + 2 = 9x - 4 |

**Solve each equation for x.**

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| 9. $\frac{a}{x}=\frac{b}{c}$  | 10. 2xy + z = 5x |

***Define the variable (if needed) and write an expression.***

11. 4 more than twice a number

12. 12 times the quantity of x minus 8

13. The quotient of the sum of y and 3 and 5.

***Define a variable, write an equation or inequality and find the solution****.*

14. There are 4 more boys than girls in Spanish class. The class has 38 members. How many boys and girls are there separately?

15. Find three consecutive odd integers whose sum is 45.

16. Ten less than two times a number is the same as the number increased by 6.