

Name: Key

Class:

Topic:

Date:

Main Ideas/Questions	Notes	
One-Step Equations	1. $m + 12 = 10$ $\begin{array}{r} -12 \\ -12 \end{array}$ $\hline m = -2$	2. $-2 = 8 - 9$ $\begin{array}{r} +9 \\ +9 \end{array}$ $\hline 9 = 7$
	3. $-7y = -91$ $\begin{array}{r} -7 \\ -7 \end{array}$ $\hline y = 13$	4. $9 \cdot \frac{a}{9} = -49$ $a = -36$
Fractions *To "get rid" of a fraction, multiply by the <u>reciprocal!</u>	5. $\frac{3}{2}x = 10$ $\cdot \frac{2}{2}$ $\hline x = 15$	6. $\frac{4}{9}w = -8$ $\cdot \frac{9}{9}$ $\hline w = -18$
	7. $\frac{5}{6}k = 12$ $\cdot \frac{6}{6}$ $\hline k = -10$	8. $\frac{2}{1}m = -9$ $\cdot \frac{1}{2}$ $\hline m = 18$
Two-Step Equations	To Solve a Two-Step Equation: 1. Undo the Addition/Subtraction (to remove constant term) 2. Undo the Multiplication/Division (to remove coefficient)	
	9. $6x + 8 = 50$ $\begin{array}{r} -8 \\ -8 \end{array}$ $\hline 6x = 42$ $\begin{array}{r} 6 \\ 6 \end{array}$ $\hline x = 7$	10. $2x - 5 = 11$ $\begin{array}{r} +5 \\ +5 \end{array}$ $\hline 2x = 16$ $\begin{array}{r} 2 \\ 2 \end{array}$ $\hline x = 8$
	11. $13 = -4x + 9$ $\begin{array}{r} -9 \\ -9 \end{array}$ $\hline 4 = -4x$ $\begin{array}{r} -4 \\ -4 \end{array}$ $\hline x = -1$	12. $7 - 3x = 34$ $\begin{array}{r} -7 \\ -7 \end{array}$ $\hline -3x = 27$ $\begin{array}{r} -3 \\ -3 \end{array}$ $\hline x = -9$
	13. $\frac{x}{2} - 7 = 9$ $\begin{array}{r} +7 \\ +7 \end{array}$ $\hline 2 \cdot \frac{x}{2} = 16 + 2$ $\hline x = 32$	14. $11 = \frac{x}{-5} + 8$ $\begin{array}{r} -8 \\ -8 \end{array}$ $\hline -3 \cdot 3 = \frac{x}{-5} \cdot -5$ $\hline x = -15$
	15. $\frac{3}{5}x + 22 = 28$ $\begin{array}{r} -22 \\ -22 \end{array}$ $\frac{3}{5}x = 6$ $\cdot \frac{5}{5}$ $\hline x = 10$	16. $-\frac{1}{3}x + 1 = -7$ $\begin{array}{r} -1 \\ -1 \end{array}$ $-\frac{1}{3}x = -8$ $\cdot -3$ $\hline x = 24$