

Name:

Class:

Topic:

Date:

Main Ideas/Questions	Notes	
One-Step Equations	1. $m + 12 = 10$ $\frac{-12 \quad -12}{m = -2}$	2. $-2 = g - 9$ $\frac{+9 \quad +9}{g = 7}$
	3. $-7y = -91$ $\frac{-7 \quad -7}{y = 13}$	4. $\frac{a}{9} = -4.9$ $a = -36$
Fractions *To "get rid" of a fraction, multiply by the <u>Reciprocal</u> !	5. $\frac{2}{3}x = 10$ $\frac{3}{2} \cdot \frac{2}{3}x = 10 \cdot \frac{3}{2}$ $x = 15$	6. $\frac{4}{9}w = -8$ $\frac{9}{4} \cdot \frac{4}{9}w = -8 \cdot \frac{9}{4}$ $w = -18$
	7. $\frac{6}{5}k = 12$ $\frac{5}{6} \cdot \frac{6}{5}k = 12 \cdot \frac{5}{6}$ $k = 10$	8. $-\frac{1}{2}m = -9$ $\frac{-2}{-2} \cdot -\frac{1}{2}m = -9 \cdot \frac{-2}{-2}$ $m = 18$
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. $6x + 8 = 50$ $\frac{-8 \quad -8}{6x = 42}$ $\frac{6x}{6} = \frac{42}{6}$ $x = 7$	10. $2x - 5 = 11$ $\frac{+5 \quad +5}{2x = 16}$ $\frac{2x}{2} = \frac{16}{2}$ $x = 8$
	11. $13 = -4x + 9$ $\frac{-9 \quad -9}{4 = -4x}$ $\frac{-4 \quad -4}{x = -1}$	12. $7 - 3x = 34$ $\frac{-7 \quad -7}{-3x = 27}$ $\frac{-3 \quad -3}{x = -9}$
	13. $\frac{x}{2} - 7 = 9$ $\frac{+7 \quad +7}{\frac{x}{2} = 16}$ $\frac{2}{2} \cdot \frac{x}{2} = 16 \cdot \frac{2}{2}$ $x = 32$	14. $11 = \frac{x}{-5} + 8$ $\frac{-8 \quad -8}{3 = \frac{x}{-5}}$ $\frac{-5 \quad -5}{x = -15}$
15. $\frac{3}{5}x + 22 = 28$ $\frac{-22 \quad -22}{\frac{3}{5}x = 6}$ $\frac{5}{3} \cdot \frac{3}{5}x = 6 \cdot \frac{5}{3}$ $x = 10$	16. $-\frac{1}{3}x + 1 = -7$ $\frac{-1 \quad -1}{-\frac{1}{3}x = -8}$ $\frac{-3 \quad -3}{x = 24}$	