Name:	Class:
Topic:	Date:

Main Ideas/Questions	Notes	
One-Step Equations	**1.** $m + 12 = 10$	**2.** $-2 = g - 9$
	3. $-7y = -91$	**4.** $\dfrac{a}{9} = -4$
Fractions *To "get rid" of a fraction, multiply by the* _____!	**5.** $\dfrac{2}{3}x = 10$	**6.** $\dfrac{4}{9}w = -8$
	7. $-\dfrac{6}{5}k = 12$	**8.** $-\dfrac{1}{2}m = -9$
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. $6x + 8 = 50$	**10.** $2x - 5 = 11$
	11. $13 = -4x + 9$	**12.** $7 - 3x = 34$
	13. $\dfrac{x}{2} - 7 = 9$	**14.** $11 = \dfrac{x}{-5} + 8$
	15. $\dfrac{3}{5}x + 22 = 28$	**16.** $-\dfrac{1}{3}x + 1 = -7$

Main Ideas/Questions	Notes

One-Step Equations

1. $m + 12 = 10$
$\quad -12 \quad -12$
$\boxed{m = -2}$

2. $-2 = g - 9$
$\quad +9 \quad +9$
$\boxed{7 = g}$

3. $-7y = -91$
$\quad \dfrac{-7}{-7} \quad \dfrac{}{-7}$
$\boxed{y = 13}$

4. $\dfrac{a}{9} = -4(9)$
$\boxed{a = -36}$

Fractions

To "get rid" of a fraction, multiply by the __reciprocal__ !

5. $\left(\dfrac{3}{2}\right)\dfrac{2}{3}x = 10\left(\dfrac{3}{2}\right)$
$\boxed{x = 15}$

6. $\left(\dfrac{9}{4}\right)\dfrac{4}{9}w = -8\left(\dfrac{9}{4}\right)$
$\boxed{w = -18}$

7. $\left(-\dfrac{5}{6}\right)-\dfrac{6}{5}k = 12\left(-\dfrac{5}{6}\right)$
$\boxed{k = -10}$

8. $\left(-\dfrac{2}{1}\right)-\dfrac{1}{2}m = -9\left(-\dfrac{2}{1}\right)$
$\boxed{m = 18}$

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. $6x + 8 = 50$
$\quad -8 \quad -8$
$\dfrac{6x}{6} = \dfrac{42}{6}$
$\boxed{x = 7}$

10. $2x + 5 = 11$
$\quad +5 \quad +5$
$\dfrac{2x}{2} = \dfrac{16}{2}$
$\boxed{x = 8}$

11. $13 = -4x + 9$
$\quad -9 \quad\quad -9$
$\dfrac{4}{-4} = \dfrac{-4x}{-4}$
$\boxed{-1 = x}$

12. $7 - 3x = 34$
$\quad -7 \quad\quad -7$
$\dfrac{-3x}{-3} = \dfrac{27}{-3}$
$\boxed{x = -9}$

13. $\dfrac{x}{2} - 7 = 9$
$\quad +7 \quad +7$
$(2)\dfrac{x}{2} = 16(2)$
$\boxed{x = 32}$

14. $11 = \dfrac{x}{-5} + 8$
$\quad -8 \quad\quad -8$
$(-5)3 = \dfrac{x}{-5}(-5)$
$\boxed{-15 = x}$

15. $\dfrac{3}{5}x + 22 = 28$
$\quad\quad -22 \; -22$
$\left(\dfrac{5}{3}\right)\dfrac{3}{5}x = 6\left(\dfrac{5}{3}\right)$
$\boxed{x = 10}$

16. $-\dfrac{1}{3}x + 1 = -7$
$\quad\quad -1 \; -1$
$\left(-\dfrac{3}{1}\right)-\dfrac{1}{3}x = -8\left(-\dfrac{3}{1}\right)$
$\boxed{x = 24}$