Warm - up
May 10th

Solve and Check

$8y - 40 = 8$

$+40 \quad +40$

$\frac{8y}{8} = \frac{48}{8}$

$y = 6$

$4(2y - 10) = 8$

$8y - 40 = 8$

$+40 \quad +40$

$8y + 0 = 48$

$\frac{8y}{8} = \frac{48}{8}$

$x = 6$

$4(2(6) - 10) = 8$

$4(12 - 10) = 8$

$4(2) = 8$

$8 = 8$

5.2.2 Combining Properties to Solve Linear Equations

Example

Work w/ the Simplest Stuff you can!!!

Solve and Check

$$-4(4+1) = \frac{-2x}{3} + 80$$

$$-20 = \frac{-2x}{3} + 80$$

$$-80 \qquad -80$$

$$3 \cdot -100 = \frac{-2x \cdot 3}{3}$$

$$-\frac{2}{3}x$$

$$\frac{-300}{-2} = \frac{-2x}{-2}$$

$$150 = x$$

Example

Solve and Check

$14 - 5(a + 3) = -1(1 - 2a)$

$14 - 5(-4+3) = -1(1-2(-4))$

$14 - 5(-1) = -1(1-8)$

$14 - 5 = -1(9)$

$19 = -9$

$14 - 5A - 15 = -1 + 2A$

$-5A - 1 = -1 + 2A$

$-5A = -29 + 2A$

$+5A \quad +5A$

$-29 + 1 = -1 + 7A + 1$

$\frac{-28}{7} = \frac{7A}{7}$

$-29 = -1 + 7A$

$-4 = A$

$a = 0$

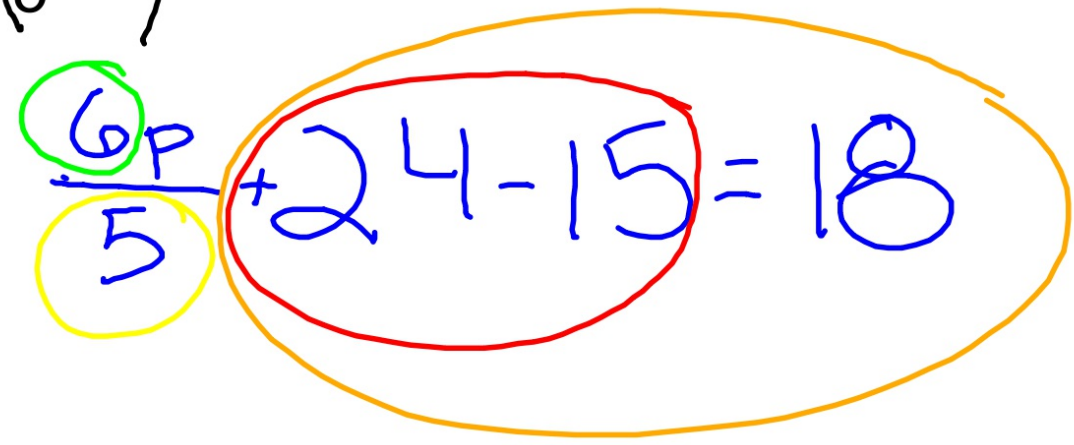
$-5a + 0 = 2a$

$\frac{0}{7} = \frac{7a}{7}$

Example

Solve and Check

$$6\left(\frac{p}{5} + 4\right) - 15 = 18$$



Homework (due Tue)

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