5/11/12 12.2 Solving Addition Equations
12.3 Solving Subtraction Equations

- To solve an addition equation subtract the same # from each side so that the VARIABLE is by itself on one side of the = sign.
- To solve a subtraction equation add the same # to both sides so that the VARIABLE is by itself on one side of the = sign.

Addition:

* $x + 5 = 15$

\# with the variable

$-5 \quad -5$

* $x = 10$

Subtraction:

* $y - 3 = 9$

$+3 = +3$

* $y = 12$

*Whatever you do to one side of the equation you have to do to the other.

$y - 3 = 9$

$y = 9 + 3$

$y + 2 = 8$

$y = 8 - 2$

$15 = 3 + y$

$-3 \quad -3$

$12 = y$

P. 589

$$y + 25 = 140$$
$$-25 = -25$$
$$y = 115$$

$$u + 1.85 = \$50.00$$
$$-1.85 = -1.85$$
$$u = 48.15$$

p. 589

#s 5-10

(5) $p = 64$

(6) $q = 90$

(7) $r = 37$

(8) $s = 8.2$

(9) $t = 2.2$

(10) $u = 48.15$

$$\begin{array}{r} 10.55 \\ -\ 8.35 \\ \hline 2.20 \end{array}$$

(9) $8.35 + t = 10.55$

$t = 10.55 - 8.35$

P. 593 #s 1-3

① $q - 7 = 2$

$+7 \quad +7$

$q = 9$

② $25 = s - 17$

$+17 \quad +17$

$42 = s$

③ $r = 5.3$

$3.2 = r - 2.1$

$+2.1 \quad +2.1$

$5.3 = r$

$25 = s - 17$

$+17 \quad +17$

$42 = s$

Check your answers!

$25 = 42 - 17$

✓ $25 = 25$

In Class:

p. 590 #s 9-26

p. 594 #s 9-25

HW: WS 12.2