Name_____**Date**_____**Hour**_____

Worksheet 3.3, 3.4, 3.7 – Multi-Step Equations – Textbook pages 145-159 and pages 174-179

LEVEL 1

Show all steps to solve each equation.

1) $14 - 2x = 6$

2) $-7x + 4x = 9$

3) $x + 5x - 5 = 1$

4) $3 - \frac{3}{4}x = -6$

LEVEL 2

Show all steps to solve each equation.

5) $-8x + 7 = 4x - 5$

6) $2(2x - 3) = 4x - 6$

7) $6s - 14 = -6s + 5$

8) $7(1 - y) = -3(y - 2)$

LEVEL 3

Solve for y unless told otherwise.

9) Solve for b:

$A = \frac{1}{2}bh$

10) $9 - y = 1.5x$

11) $1 + 7y = 5x - 2$

12) $\frac{1}{4}y + 3 = -5x$

LEVEL 4

Write an equation and solve the problems. Show your work.

13) A parking garage charges $3 to park and $1.50 an hour. How long can you park if you have $12?

14) When babysitting you make $6 for the first hour and $2.50 for every hour after. How many hours do you have to work to make $16?

15) A health club charges $5 for swimming classes and $3 for aerobic classes to its non-members. Members pay $240 a year and $2 per swimming class. Assuming you plan to do both activities, how many days do you have to go to the club to justify a membership?

16) Two cars travel the same distance. The first car travels 40 mph and reaches its destination in *t* hours. The second car travels 55 mph and reaches the destination 3 hours earlier. How long does it take the first car to reach its destination?