This is your review guide for the Chapter 3 Quiz. These problems are from your notes, so look up the answers in your notes to make sure you did the review problems correctly. Keep practicing until you can get all the answer correct in less than an hour☺

Solve the following inequalities.

$8x - 5 - 6x > 9$ $\quad$ $6(x + 2) + 1 \leq -17$ $\quad$ $4x + 8 - 9x + 2 < -5$

$13x - 8 \geq 4x - 26$ $\quad$ $-5x - 11 < -8(x - 2)$ $\quad$ $7x + 9 > 3(x - 1) + 6x$

Write and graph the following compound inequalities.

All real numbers greater than -2 but less than 9

The books were priced between $3.50 and $6 inclusive

All real numbers that are at most 3 and at least 8

Solve the following compound inequalities.

$-6 \leq 3x < 15$ $\quad$ $-3 < 2x - 1 \leq 7$ $\quad$ $-2x + 7 > 3$ or $3x - 4 \geq 5$

The acidity of the water in a swimming pool is considered to be normal if the average of three pH readings is between 7.2 and 7.8 inclusive. The first two readings are 7.4 and 7.9. What possible values for the third reading will make the average pH normal?

Solve the following absolute value equations.

$|3c - 6| = 9$ $\quad$ $|2j + 3| = 7$ $\quad$ $-7 = |m + 1|$ $\quad$ $2|4m| = 72$

$|x| - 3 = 5$ $\quad$ $7|n - 14| = 28$ $\quad$ $4 = 3|w| - 2$ $\quad$ $-5|g + 1| = -35$

Solve the following absolute value inequalities.

$|w + 2| \geq 5$ $\quad$ $|c + 7| > 9$ $\quad$ $|y - 5| < 2$

$|6.5x| < 39$ $\quad$ $|-3n| - 2 \leq 7$ $\quad$ $|n| - 3 \geq 7$