Name: _____

1 Which equation states that the temperature, t, in a room is less than 3° from 68°?

060107b (1) $|3 - t| < 68$ (3) $|68 - t| < 3$
(2) $|3 + t| < 68$ (4) $|68 + t| < 3$

2 What is the solution of the inequality $|x + 3| \leq 5$?

080203b (1) $-8 \leq x \leq 2$ (3) $x \leq -8$ or $x \geq 2$
(2) $-2 \leq x \leq 8$ (4) $x \leq -2$ or $x \geq 8$

3 What is the solution of the inequality $|y + 8| > 3$?

010610b (1) $y > -5$ or $y < -11$ (3) $-11 < y < -5$
(2) $y > -5$ (4) $-5 < y < 11$

4 What is the solution of the inequality $|2x - 5| < 1$?

060907b (1) $x < 3$ (3) $x > -3$
(2) $2 < x < 3$ (4) $x \leq 2$ or $x \geq 3$

5 The solution of $|2x - 3| < 5$ is

080509b (1) $x < -1$ or $x > 4$ (3) $x > -1$
(2) $-1 < x < 4$ (4) $x < 4$

6 What is the solution set of the inequality $|2x - 1| < 9$?

010710b (1) $\{x | -4 < x < 5\}$ (3) $\{x | x < 5\}$
(2) $\{x | x < -4 \text{ or } x > 5\}$ (4) $\{x | x < -4\}$

7 What is the solution of the inequality $|2x - 5| \leq 11$?

010925b

8 What is the solution set of the inequality $|3 - 2x| \geq 4$?

060318b (1) $\{x | \frac{7}{2} \leq x \leq -\frac{1}{2}\}$ (3) $\{x | x \leq -\frac{1}{2} \text{ or } x \geq \frac{7}{2}\}$
(2) $\{x | -\frac{1}{2} \leq x \leq \frac{7}{2}\}$ (4) $\{x | x \leq \frac{7}{2} \text{ or } x \geq -\frac{1}{2}\}$

9 The solution set of $|3x + 2| < 1$ contains

080102b (1) only negative real numbers
(2) only positive real numbers
(3) both positive and negative real numbers
(4) no real numbers