Green: Solving Inequalities

Name_____

1. (a) Which of the following is a solution to the inequality: $-2x + 5 > 11$

(1) 4 (2) 0 (3) -3 (4) -5

(b) Which of the following is **NOT** a solution to the inequality: $-\frac{x}{7} \geq -3$

(1) 21 (2) 20 (3) -21 (4) 24

Name_____

2. (a) Which of the following is **NOT** a solution to the inequality: $-7x + 9 \leq -19$

(1) -4 (2) 4 (3) 5 (4) 6

(b) Which of the following is a solution to the inequality: $-\frac{x}{2} > 5$

(2) 10 (2) -10 (3) -15 (4) 15

Name_____

3. (a) Which of the following is a solution to the inequality: $-4x + 3 < -1$

(1) -1 (2) 1 (3) -2 (4) 2

(b) Which of the following is **NOT** a solution to the inequality: $-\frac{x}{6} \leq 1$

(1) -6 (2) 20 (3) 35 (4) -24

Name_____

4. (a) Which of the following is **NOT** a solution to the inequality: $-x + 6 \leq 3$

(2) 3 (2) -3 (3) 4 (4) 25

(b) Which of the following is **NOT** a solution to the inequality: $-\frac{x}{8} > -5$

(2) 38 (2) 39 (3) -40 (4) 41

Green: Solving Inequalities

Name Key

1. (a) Which of the following is a solution to the inequality: $-2x+5>11$

$-5 \quad -5$

$\frac{-2x}{-2} > \frac{6}{-2}$

$x < -3$

(1) 4 (2) 0 (3) -3 (4) -5

(b) Which of the following is **NOT** a solution to the inequality: $-7 \cdot -\frac{x}{7} \geq -3 \cdot -7$

$x \leq 21$

(1) 21 (2) 20 (3) -21 (4) 24

Name Key

2. (a) Which of the following is **NOT** a solution to the inequality: $-7x+9 \leq -19$

$-9 \quad -9$

$\frac{-7x}{-7} \leq \frac{-28}{-7}$

$x \geq 4$

(1) -4 (2) 4 (3) 5 (4) 6

(b) Which of the following is a solution to the inequality: $-2 \cdot -\frac{x}{2} > 5 \cdot -2$

$x < -10$

(2) 10 (2) -10 (3) -15 (4) 15

Name Key

3. (a) Which of the following is a solution to the inequality: $-4x+3<-1$

$-3 \quad -3$

$\frac{-4x}{-4} < \frac{-4}{-4}$

$x > 1$

(1) -1 (2) 1 (3) -2 (4) 2

(b) Which of the following is **NOT** a solution to the inequality: $-6 \cdot -\frac{x}{6} \leq 1 \cdot -6$

$x \geq -6$

(1) -6 (2) 20 (3) 35 (4) -24

Name Key

4. (a) Which of the following is **NOT** a solution to the inequality: $-x+6 \leq 3$

$-6 \quad -6$

$\frac{-x}{-1} \leq \frac{-3}{-1}$

$x \geq 3$

(2) 3 (2) -3 (3) 4 (4) 25

(b) Which of the following is **NOT** a solution to the inequality: $-8 \cdot -\frac{x}{8} > -5 \cdot -8$

$x < 40$

(2) 38 (2) 39 (3) -40 (4) 41