Name: _____ Period: _____ Date: _____

Solving Equations Exit Quiz

Part A: Multiple Choices: Instructions: Choose the option that completes the sentence or answers the question.

1) The solution to the inequality $2x - 5 > x - 2$ is

   a) $x < 3$
   b) $x > 3$
   c) $x < -5$
   d) $x > -2$

2) The solution to the inequality $-4 \times (2x + 4) \geq 16$ is

   a) $x \leq 2$
   b) $x \leq -4$
   c) $x \geq 4$

3) The solution to the inequality $-2x + 5 > 3$ or $3x - 2 \geq 5$ is

   a) $(-\infty, 2) \cup (3, \infty)$
   b) $(-\infty, 1) \cup \left[\frac{7}{3}, \infty\right)$
   c) $(-\infty, 1) \cup \left(\frac{7}{3}, \infty\right)$
   d) $(-\infty, -3) \cup [3, \infty)$

4) The solution to the inequality $7 < -2n + 1 \leq 13$ is

   a) $2 > n \geq -6$
   b) $4 > n \geq -5$
   c) $-3 > n \geq -6$
   d) $-5 > n > -1$

Part B: Short Answer: Instructions: Answer the question below.

Mr. Diaz wishes to save at least \$1500 in 12 months. If he saved \$300 during the first 4 months, what is the least possible average amount that he must save in each of the remaining 8 months?

_____
_____
_____
_____

Name: _____ Period: _____ Date: _____

Solving Equations Exit Quiz

Answers:

Part A: Multiple Choices: Instructions: Choose the option that completes the sentence or answers the question.

1) The solution to the inequality $2x - 5 > x - 2$ is
   a) $x < 3$
   b) $x > 3$
   c) $x < -5$
   d) $x > -2$
2) The solution to the inequality $-4 \times (2x + 4) \geq 16$ is
   a) $x \leq 2$
   b) $x \leq -4$
   c) $x \geq 4$
   d) $x \geq -2$
3) The solution to the inequality $-2x + 5 > 3$ or $3x - 2 \geq 5$ is
   a) $(-\infty, 2) \cup (3, \infty)$
   b) $(-\infty, 1) \cup \left[\frac{7}{3}, \infty\right)$
   c) $(-\infty, 1) \cup \left(\frac{7}{3}, \infty\right)$
   d) $(-\infty, -3) \cup [3, \infty)$
4) The solution to the inequality $7 < -2n + 1 \leq 13$ is
   a) $2 > n \geq -6$
   b) $4 > n \geq -5$
   a) $-3 > n \geq -6$
   b) $-5 > n > -11$

Part B: Short Answer: Instructions: Answer the question below.

Mr. Diaz wishes to save at least \$1500 in 12 months. If he saved \$300 during the first 4 months, what is the least possible average amount that he must save in each of the remaining 8 months?

Assume that the least average amount he must save is x

$300 + 8x \geq 1500$

$8x \geq 1200$

$x \geq 150$

The least average amount he must save is \$150.