**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
2. x < 3
3. x > 3
4. x < –5
5. x > –2

1. The solution to the inequality $-4×\left(2x+4\right)\geq 16$ is

1. x ≤ 2
2. x ≤ –4
3. x ≥ 4
4. The solution to the inequality –2x + 5 > 3 or 3x – 2 ≥ 5 is
5. $\left(-\infty , 2\right)∪\left(3, \infty \right)$
6. $\left(-\infty , 1\right)∪\left[\frac{7}{3},\infty \right) $
7. $\left(-\infty , 1\right)∪\left(\frac{7}{3},\infty \right) $
8. $\left(-\infty , -3\right)∪[3, \infty )$

1. The solution to the inequality 7 < –2n + 1 ≤ 13 is
2. 2 > n ≥ -6
3. 4 > n ≥ –5
4. –3 > n ≥ –6
5. –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?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**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
2. x < 3
3. x > 3
4. x < –5
5. x > –2
6. The solution to the inequality $-4×\left(2x+4\right)\geq 16$ is

1. x ≤ 2
2. x ≤ –4
3. x ≥ 4
4. x ≥ –2
5. The solution to the inequality –2x + 5 > 3 or 3x – 2 ≥ 5 is
6. $\left(-\infty , 2\right)∪\left(3, \infty \right)$
7. $\left(-\infty , 1\right)∪\left[\frac{7}{3},\infty \right) $
8. $\left(-\infty , 1\right)∪\left(\frac{7}{3},\infty \right) $
9. $\left(-\infty , -3\right)∪[3, \infty )$

1. The solution to the inequality 7 < –2n + 1 ≤ 13 is
2. 2 > n ≥ –6
3. 4 > n ≥ –5
4. –3 > n ≥ –6
5. –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 ≥ 1500

8x ≥ 1200

x ≥ 150

The least average amount he must save is $150.