

Name: _____

Math Practice: Page 20

Class: _____

Date: _____

<p>1) List 3 values that satisfy each inequality.</p> <p>a) $12 < x < 17$ _____</p> <p>b) $z \geq 11$ _____</p> <p>c) $9 \leq y < 12$ _____</p> <p>d) $123 < x < 124$ _____</p> <p>e) $-7 \leq y \leq -5$ _____</p>	<p>2) Write the following as an algebraic inequality.</p> <p>a) Forty-six greater than or equal to 5 plus the product of a number, x, and eleven.</p> <p>_____</p> <p>b) Ninety-three is less than or equal to 9 more than 3 times a number.</p> <p>_____</p>
<p>4) The cost of one Big Mac, a, and one Chicken Sandwich, b, is less than the cost of 2 Big Macs. Which inequality represents this relationship?</p> <p>A) $a + b < 2a$ B) $a + b < a^2$</p> <p>C) $2a < a + b$ D) $a^2 < a + b$</p>	<p>5) The sum of a number and its square is less than or equal to negative three. Which inequality represents this relationship?</p> <p>A) $n(n^2) < -3$ B) $n + n^2 < -3$</p> <p>C) $n(n^2) \leq -3$ D) $n + n^2 \leq -3$</p>
<p>5) Susie wants to earn at least \$250 for a charity. She will earn \$25 for participating, and \$8 for each mile she runs. If M represents the miles she runs, which inequality represents the money Susie wants to earn?</p> <p>A) $8m + 25 \leq 250$ B) $8m + 25 \geq 250$</p> <p>C) $25m + 8 \leq 250$ D) $25m + 8 \geq 250$</p>	<p>6) Roberto sells toys on a website. The website fee is \$35. He sells each toy for \$6. Which inequality does Roberto use to determine how many toys, t, he has to sell to make a profit of at least \$75?</p> <p>A) $41c \leq 75$ B) $41C \geq 75$</p> <p>C) $6c + 35 \leq 75$ D) $6c - 35 \geq 75$</p>