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 equation $|x + 2| = 7$ is
   a) $\{5\}$
   b) $\{-9\}$
   c) $\{-9, 5\}$
   d) $\emptyset$

2) The solution to the equation $5|c - 2| = 20$
   a) $\{4, -4\}$
   b) $\{-2, 6\}$
   c) $\{3, -3\}$
   d) $\emptyset$

3) The solution to the inequality $|5 - 4x| + 2 < 6$
   a) $\frac{1}{4} < x < \frac{9}{4}$
   b) $\frac{1}{4} < x < \frac{19}{4}$
   c) $-\frac{1}{4} < x < \frac{9}{4}$
   d) $\frac{3}{2} < x < \frac{9}{4}$

4) The solution to the inequality $|2x + 3| < x + 6$
   a) $3 < x < 4$
   b) $-3 < x < 3$
   c) $-5 < x < 5$
   d) $x < -3 \ or \ x > 3$

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

You have money in your wallet, but you don't know the exact amount. When a friend asks you, you say that you have 50 dollars give or take 15. Use an absolute value equation to find least and biggest amount of money in your pocket?

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Let x be the possible amount of money in your pocket.

$|x - 50| = 15$

Equation #1	Equation #2
$x - 50 = 15$ $x - 50 + 50 = 15 + 50$ $x = 65$	$x - 50 = -15$ $x - 50 + 50 = -15 + 50$ $x = 35$

The least amount is 35 dollars and the biggest amount is 65 dollars.