

NAME: \_\_\_\_\_

1. 060311a, P.I. A.A.21

Which number is in the solution set of the inequality  $5x + 3 > 38$ ?

[A] 7      [B] 5      [C] 8      [D] 6

2. fall0724a, P.I. A.A.21

Which value of  $x$  is in the solution set of the inequality  $-2x + 5 > 17$ ?

[A] -4      [B] 12      [C] -6      [D] -8

3. 080805a, P.I. A.A.21

Which value of  $x$  is in the solution set of the inequality  $-4x + 2 > 10$ ?

[A] -2      [B] -4      [C] 3      [D] 2

4. 060914a, P.I. A.A.21

Which value of  $x$  is in the solution set of  $\frac{4}{3}x + 5 < 17$ ?

[A] 8      [B] 16      [C] 9      [D] 12

5. 080913a, P.I. A.A.21

Which value of  $x$  is in the solution set of the inequality  $-2(x - 5) < 4$ ?

[A] 0      [B] 3      [C] 5      [D] 2

6. 060118a, P.I. A.A.21

In the set of positive integers, what is the solution set of the inequality  $2x - 3 < 5$ ?

[A] {1, 2, 3, 4}      [B] {0, 1, 2, 3}  
[C] {1, 2, 3}      [D] {0, 1, 2, 3, 4}

7. 010536a, P.I. A.A.21

Find all negative odd integers that satisfy the following inequality:  $-3x + 1 \leq 17$

[1] C \_\_\_\_\_

[2] D \_\_\_\_\_

[3] B \_\_\_\_\_

[4] A \_\_\_\_\_

[5] C \_\_\_\_\_

[6] C \_\_\_\_\_

[3] -5, -3, -1, and appropriate work is shown, such as solving the inequality or trial and error with at least three trials and appropriate checks.

[2] Appropriate work is shown, but one computational error is made.

or [2] Appropriate work is shown, and the inequality  $x \geq -5\frac{1}{3}$  is written, but no further

correct work is shown.

or [2] The trial-and-error method is used to find the correct solutions, but only two trials and appropriate checks are shown.

[1] Appropriate work is shown, but two or more computational errors are made.

or [1] Appropriate work is shown, but one conceptual error is made.

or [1] The trial-and-error method is attempted and at least six systematic trials and appropriate checks are shown, but the solutions are not found.

or [1] -5, -3, -1, but no work or only one trial with an appropriate check is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[7] \_\_\_\_\_