Systems of Linear Inequalities — Practice Test

Prince Edward Island Foundations of Mathematics 11 • 10 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Solve the inequality $2x + 5 > 15$ for x. What is the boundary value of x**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A point has coordinates $x = 4$ and $y = 3$. What is the value of $x + y$**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **The graph of y less than 3 is shaded**

A above the line y equals 3

B on the line only

C below the line y equals 3

D to the right of the line

Understand It with Pulse | Flag a mistake

4 **The inequality x greater than 4 is graphed on a number line with an**

A closed circle at 4 and shading to the left

B open circle at 4 and shading to the left

C open circle at 4 and shading to the right

D closed circle at 4 and shading to the right

Understand It with Pulse | Flag a mistake

5 **The inequality x less than or equal to 2 is graphed with a**

A open circle at 2 and shading to the right

B closed circle at 2 and shading to the right

C open circle at 2 and shading to the left

D closed circle at 2 and shading to the left

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6 **The solution region of an inequality is the set of points that**

A lie on the boundary only

B are outside the region

C have x equal to zero

D satisfy the inequality

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7 **Solve the inequality 3x + 4 > 19 for x. What is the boundary value of x**

ANSWER _____

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8 **Solve the inequality 4x + 3 > 23 for x. What is the boundary value of x**

ANSWER _____

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9 **Solve the inequality 2x + 2 > 12 for x. What is the boundary value of x**

ANSWER _____

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10 **Solve the inequality 6x + 2 > 26 for x. What is the boundary value of x**

ANSWER _____

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ANSWER KEY

1.	5	**5.**	D	**9.**	5
2.	7	**6.**	D	**10.**	4
3.	C	**7.**	5		
4.	C	**8.**	5		

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