Systems of Linear Inequalities — Practice Test

Prince Edward Island Foundations of Mathematics 11 • 25 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 **A point has coordinates x = 2 and y = 1 . What is the value of x + y**

ANSWER _____

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2 **For the line with equation y = 2x + 1 , what is y when x = 1**

ANSWER _____

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3 **Solve the inequality 2x + 3 < 11 for x. What is the boundary value of x**

ANSWER _____

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4 **Does the point with x = 3 and y = 1 satisfy the system where x is less than 4 and y is less than 3**

A Yes , it satisfies both inequalities

B No , it does not satisfy both inequalities

C It satisfies only the first inequality

D It satisfies only the second inequality

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5 **Does the point with x = 0 and y = 6 satisfy the system where x + y is greater than 5 and x is less than 2**

A No, it does not satisfy both inequalities

B It satisfies only the first inequality

C Yes, it satisfies both inequalities

D It satisfies only the second inequality

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6 **Does the point with x = 2 and y = 2 satisfy the system where x + y is less than 8 and x is greater than 1**

- A Yes, it satisfies both inequalities
- B No, it does not satisfy both inequalities
- C It satisfies only the first inequality
- D It satisfies only the second inequality

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7 **Does the point with x = 1 and y = 1 satisfy the system where x + y is less than 5 and y is greater than 0**

- A No, it does not satisfy both inequalities
- B It satisfies only the first inequality
- C Yes, it satisfies both inequalities
- D It satisfies only the second inequality

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8 **Does the point with x = 2 and y = 5 satisfy the system where y is greater than x and y is less than 8**

A Yes , it satisfies both inequalities

B No , it does not satisfy both inequalities

C It satisfies only the first inequality

D It satisfies only the second inequality

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9 **A system of inequalities is solved by finding the region where**

A one inequality is true

B no inequality is true

C the lines cross only

D all the inequalities are true

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10 **A test point is used to decide which side of a boundary line to**

- A shade
- B erase
- C label
- D ignore

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11 **If a point lies on a dashed boundary line, it is**

- A not included in the solution
- B always included
- C the only solution
- D ignored

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12 **If a point lies on a solid boundary line, it is**

- A never included
- B included in the solution
- C the only solution
- D outside the region

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13 **The boundary line of a strict inequality is drawn as a**

- A solid line
- B dotted point
- C dashed line
- D thick bar

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14 **The graph of y greater than 2x plus 1 is shaded**

- **A** below the line
- **B** above the line
- **C** on the line only
- **D** to the left of the line

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

ANSWER _____

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16 **For the line with equation y = 2x + 1 , what is y when x = 2**

ANSWER _____

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17 **Solve the inequality 3x + 1 < 13 for x. What is the boundary value of x**

ANSWER _____

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18 **Does the point with x = 5 and y = 1 satisfy the system where x is less than 4 and y is less than 3**

A Yes , it satisfies both inequalities

B No , it does not satisfy both inequalities

C It satisfies only the first inequality

D It satisfies only the second inequality

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19 **Does the point with x = 3 and y = 1 satisfy the system where x + y is greater than 5 and x is less than 2**

A Yes, it satisfies both inequalities

B It satisfies only the first inequality

C It satisfies only the second inequality

D No, it does not satisfy both inequalities

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20 **Does the point with x = 5 and y = 5 satisfy the system where x + y is less than 8 and x is greater than 1**

A Yes, it satisfies both inequalities

B No, it does not satisfy both inequalities

C It satisfies only the first inequality

D It satisfies only the second inequality

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21 **Does the point with x = 4 and y = 4 satisfy the system where x + y is less than 5 and y is greater than 0**

A Yes, it satisfies both inequalities

B It satisfies only the first inequality

C It satisfies only the second inequality

D No, it does not satisfy both inequalities

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22 **Does the point with x = 5 and y = 2 satisfy the system where y is greater than x and y is less than 8**

A Yes , it satisfies both inequalities

B No , it does not satisfy both inequalities

C It satisfies only the first inequality

D It satisfies only the second inequality

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23 **A point has coordinates x = 1 and y = 4 . What is the value of x + y**

ANSWER _____

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24 **For the line with equation y = 2x + 1 , what is y when x = 0**

ANSWER _____

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25 **Solve the inequality 4x + 2 < 18 for x. What is the boundary value of x**

ANSWER _____

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ANSWER KEY

1.	3	**10.**	A	**19.**	D
2.	3	**11.**	A	**20.**	B
3.	4	**12.**	B	**21.**	D
4.	A	**13.**	C	**22.**	B
5.	C	**14.**	B	**23.**	5
6.	A	**15.**	5	**24.**	1
7.	C	**16.**	5	**25.**	4
8.	A	**17.**	4		
9.	D	**18.**	B		

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