Systems of Linear Inequalities — Practice Test

Saskatchewan Foundations of Mathematics 20 • 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 **The graph of x ≥ 6 includes the point**

- A (8, 0)
- B (4, 0)
- C (0, 4)
- D (-6, 0)

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2 **Solve: 2x - 7 > 7. The smallest whole value of x that satisfies it is**

ANSWER _____

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3 **The solution of $6x + 7 \leq 10$ is**

- A $x \geq 0$
- B $x \leq 0$
- C $x \leq 1$
- D $x < 0$

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4 **The graph of $x \geq 4$ includes the point**

- A (2, 0)
- B (0, 2)
- C (6, 0)
- D (-4, 0)

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5 **The point (4, 5) satisfies which inequality**

- **A** $x + y \geq 12$
- **B** $x - y \leq -4$
- **C** $2x + y \geq 17$
- **D** $x + y \leq 9$

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6 **A system has constraints x + y is at most 13 . If x = 5 , the largest whole value of y is**

ANSWER _____

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7 **Solve: 2x - 3 > 3. The smallest whole value of x that satisfies it is**

ANSWER _____

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8 **The inequality x > 3 is graphed with**

A a closed circle at 3 and shading to the right

B an open circle at 3 and shading to the right

C an open circle at 3 and shading to the left

D a closed circle at 3 and shading to the left

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9 **The point (5, 2) satisfies which inequality**

A $x + y \geq 10$

B $x + y \leq 7$

C $x - y \leq 0$

D $2x + y \geq 16$

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10 **The solution of $4x + 6 \leq 22$ is**

- **A** $x \geq 4$
- **B** $x \leq 5$
- **C** $x \leq 4$
- **D** $x < 4$

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11 **The point (4, 3) satisfies which inequality**

- **A** $x + y \geq 10$
- **B** $x - y \leq -2$
- **C** $2x + y \geq 15$
- **D** $x + y \leq 7$

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12 **The point (0, 2) satisfies which inequality**

A $x + y \leq 2$

B $x + y \geq 5$

C $x - y \leq -5$

D $2x + y \geq 6$

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13 **The solution of $5x + 4 \leq 17$ is**

A $x \geq 2$

B $x \leq 2$

C $x \leq 3$

D $x < 2$

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14 **A system has constraints x + y is at most 7 . If x = 4 , the largest whole value of y is**

ANSWER

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15 **The point (2, 0) satisfies which inequality**

A $x + y \geq 5$

B $x - y \leq -1$

C $x + y \leq 2$

D $2x + y \geq 8$

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16 **A system has constraints x + y is at most 4 . If x = 2 , the largest whole value of y is**

ANSWER

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17 **Solve: 2x - 4 > 4. The smallest whole value of x that satisfies it is**

ANSWER _____

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18 **The solution of 5x + 3≤ 25 is**

A x ≥ 4

B x ≤ 5

C x < 4

D x ≤ 4

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19 **A system has constraints x + y is at most 13 . If x = 4 , the largest whole value of y is**

ANSWER _____

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20 **The solution of $4x + 8 \leq 14$ is**

- **A** $x \leq 1$
- **B** $x \geq 1$
- **C** $x \leq 2$
- **D** $x < 1$

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21 **Solve: $2x - 2 > 2$. The smallest whole value of x that satisfies it is**

ANSWER _____

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22 **The solution of $5x + 9 \leq 27$ is**

- **A** $x \geq 3$
- **B** $x \leq 3$
- **C** $x \leq 4$
- **D** $x < 3$

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23 **A system has constraints x + y is at most 9 . If x = 2 , the largest whole value of y is**

ANSWER _____

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24 **The point (3, 1) satisfies which inequality**

A $x + y \geq 7$

B $x - y \leq -1$

C $x + y \leq 4$

D $2x + y \geq 11$

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25 **Solve: 2x - 5 > 5. The smallest whole value of x that satisfies it is**

ANSWER _____

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ANSWER KEY

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

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