SASKATCHEWAN FOUNDATIONS OF MATHEMATICS 20 · UNIT E

# Systems of Linear Inequalities — Practice Test

**Saskatchewan Foundations of Mathematics 20 • 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: 2x - 9 > 9. The smallest whole value of x that satisfies it is**

ANSWER _____

Understand It with Pulse | Flag a mistake

**2** **The point (3, 2) satisfies which inequality**

A. $x + y \geq 8$

B. $x - y \leq -2$

C. $2x + y \geq 12$

D. $x + y \leq 5$

Understand It with Pulse | Flag a mistake

3 **A system has constraints x + y is at most 8 . If x = 5 , the largest whole value of y is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The solution of 6x + 7≤ 17 is**

A x ≤ 1

B x ≥ 1

C x ≤ 2

D x < 1

Understand It with Pulse | Flag a mistake

**5** **The solution of $2x + 6 \leq 22$ is**

- **A** $x \geq 8$
- **B** $x \leq 8$
- **C** $x \leq 9$
- **D** $x < 8$

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**6** **The solution of $3x + 4 \leq 15$ is**

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

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7 **A system has constraints x + y is at most 7 . If x = 5 , the largest whole value of y is**

ANSWER _____

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8 **The graph of x ≥ 3 includes the point**

A (1, 0)

B (0, 1)

C (-3, 0)

D (5, 0)

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**9** **The solution of $5x + 2 \leq 20$ is**

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

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**10** **The solution of $3x + 1 \leq 19$ is**

- **A** $x \geq 6$
- **B** $x \leq 6$
- **C** $x \leq 7$
- **D** $x < 6$

Understand It with Pulse | Flag a mistake

## ANSWER KEY

| | | | | | |
|---|---|---|---|---|---|
| **1.** | 10 | **5.** | B | **9.** | A |
| **2.** | D | **6.** | C | **10.** | B |
| **3.** | 3 | **7.** | 2 | | |
| **4.** | A | **8.** | D | | |

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