

Inequalities Quiz Answer Key PDF

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Which of the following	ng are symbols	used in inequ	ualities? (Selec	et all that apply)
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- A. > ✓
- B. < **√**
- C. =
- D. ≥ **√**
- E. ≠

Which of the following is a linear inequality?

- A. $x^2 + 3x 4 > 0$
- B. $2x + 5 < 10 \checkmark$
- C. $x^3 2x + 1 \le 0$
- D. |x 1| > 3

Which of the following are types of inequalities? (Select all that apply)

- A. Linear ✓
- B. Quadratic ✓
- C. Polynomial ✓
- D. Exponential

Which of the following inequalities have solutions that include x = 3? (Select all that apply)

- A. x > 2
- B. x < 3
- C. $x \ge 3$
- D. x ≤ 3 ✓



- A. Linear
- B. Quadratic
- C. Absolute value ✓
- D. Rational

Which of the following is NOT a solution to the inequality x < 4?

- A. 3
- B. 0
- C. 5 ✓
- D. -1

Which of the following are methods to solve inequalities? (Select all that apply)

- A. Graphting ✓
- B. Substitution
- C. Addition or subtraction ✓
- D. Multiplication or division ✓

In the inequality 3x - 7 > 2, what is the first step to isolate x?

- A. Add 7 to both sides ✓
- B. Subtract 7 from both sides
- C. Divide both sides by 3
- D. Multiply both sides by 3

What does the solution $x \ge 2$ look like on a number line?

- A. Open circle at 2, shading to the right
- B. Closed circle at 2, shading to the right ✓
- C. Open circle at 2, shading to the left
- D. Closed circle at 2, shading to the left

What symbol is used to represent "greater than"?

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Α.	<		
В.	>	✓	
C.	≤		
D.	≥		

What happens to the inequality sign when you multiply or divide both sides by a negative number?

- A. It stays the same
- B. It reverses ✓
- C. It becomes an equation
- D. It disappears

Which notation is used to represent the solution set of an inequality on a number line?

- A. Interval notation ✓
- B. Set-builder notation
- C. Equation notation
- D. Function notation

Which statements are true about compound inequalities? (Select all that apply)

- A. They always have "and" between them
- B. They can be solved separately ✓
- C. They may use "or" to combine solutions ✓
- D. They represent a single inequality

What are common mistakes when solving inequalities? (Select all that apply)

- A. Forgetting to reverse the inequality sign when multiplying by a negative ✓
- B. Misplacing decimal points
- C. Incorrectly graphing the solution ✓
- D. Solving as if it were an equation ✓