

Grade 7 · Two-Step Inequalities · Quiz

Common Core 7.EE.B.4b · mathovore.fr

Name: _____ Date: ____/____/____ Score: _____

This grade 7 two step inequalities quiz asks 10 multiple-choice questions on two-step inequalities, and each answer comes with a short explanation.

Try these ten multiple-choice questions on two-step inequalities. Each one has exactly one correct answer. Some ask you to read a graph or a thermometer. Solve on scratch paper first, then check the explanation.

Grade 7 Common Core: 7.EE.B.4b

Questions

Question 1

Which is the solution of $2x+5>13$?

- A. $x < 4$
- B. $x > 4$
- C. $x > 9$
- D. $x > 6$

Question 2

Which is the solution of $-3x+2 \leq 14$?

- A. $x \leq -4$
- B. $x \geq 4$
- C. $x \geq -4$
- D. $x \leq 4$

Question 3

The graph shows the solution set of which inequality?

Figure: Number line from -2 to 6 with a closed circle at 2 and a shaded ray pointing left

Closed circle at 2 with a ray to the left.

- A. $3x-1 \geq 5$
- B. $3x+1 \leq 5$

C. $3x-1 \leq 5$

D. $3x-1 < 5$

Question 4

Which step reverses the inequality sign when solving $-4x > 16$?

A. Dividing both sides by -4

B. Subtracting 4 from both sides

C. Adding 4 to both sides

D. Dividing both sides by 4

Question 5

Which value is a solution of $4x+3 < -3$?

A. $x=-1$

B. $x=-2$

C. $x=0$

D. $x=3$

Question 6

A park ticket costs \$18 and each ride costs \$6. Maya has \$60. What is the greatest number of rides r she can afford, from $18+6r \leq 60$?

Figure: Maya has