

Solving Inequalities: math test, Grade 7 – download the PDF

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Symbols and values

/ 4 pts

- a. Write as an inequality: “ n is at most 15.”
- b. True or false: $-7 < -9$.
- c. Is 3 a solution of $2x + 1 \geq 7$?
- d. Is -2 a solution of $4 - x < 5$?

2 Solve and graph

/ 4 pts

Solve each inequality and graph its solution set on a number line.

- a. $4x - 5 < 15$
- b. $-3x + 4 \geq 19$

3 Negative coefficient with a fraction

/ 3 pts

Solve $6 - \frac{x}{3} \leq 2$ and state the solution set.

4 Gym membership

/ 4 pts

A gym charges a 20-dollar sign-up fee plus 18 dollars per month. Sam can spend at most 200 dollars. Let m be the number of months. Write an inequality, solve it, and interpret the answer.

5 Error analysis

/ 3 pts

Zoe solved $-5x < 35$ and got $x < -7$. Explain her mistake, give the correct solution, and check it with a value.

6 Whole-number solutions

/ 2 pts

List all whole numbers x that satisfy both $3x + 1 < 17$ and $x \geq 2$.



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