

Solve One-Step Inequalities

Guided Practice

Solve each inequality. Graph the solution on a number line. (Examples 1–4)

1. $h - 6 \geq 13$ _____

2. $5y > 30$ _____

Show your work

3. Johanna's parents give her \$10 per week for lunch money. She cannot decide whether she wants to buy or pack her lunch. If a hot lunch at school costs \$2, write and solve an inequality to find the maximum number of times per week Johanna can buy her lunch. (Example 5)
- _____

4. Tino's Pizza charges \$9 for a cheese pizza. Eileen has \$45 to buy pizza for the Spanish Club. Write and solve an inequality to find the maximum number of pizzas that Eileen can buy. (Example 5)
- _____

Independent Practice

Solve each inequality. Graph the solution on a number line. (Examples 1–4)

1. $2 + y \leq 3$ _____

2. $w - 1 \leq 4$ _____

Show your work

3. $7x > 56$ _____

4. $\frac{d}{3} \leq 2$ _____

A company charges \$0.10 for each letter engraved. Bobby plans to spend no more than \$5.00 on the engraving on a jewelry box. Write and solve an inequality to find the maximum number of letters he can have engraved. (Example 5)

Solve each inequality. Graph the solution on a number line.

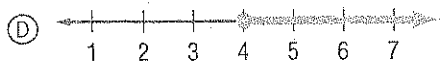
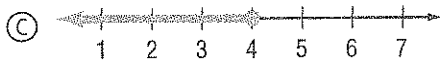
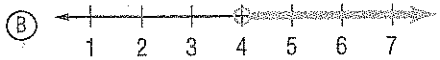
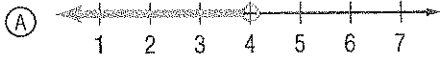
$p - \frac{7}{12} > \frac{3}{10}$ _____

8. $f + 0.3 < 1.7$ _____

Standardized Test Practice

12. Which of the following number lines shows the solution to the inequality?

$7x > 28$



Extra Practice

Solve each inequality. Graph the solution on a number line.

15. $d + 13 \geq 22$ _____

16. $25t \leq 100$ _____

17. $\frac{g}{2} < 6$ _____

18. $\frac{r}{9} > 8$ _____

19. A community needs to raise at least \$5,000 to build a new skateboarding park. They are selling backpacks for \$25 each to raise the money. Write and solve an inequality to determine the minimum number of backpacks they need to sell in order to reach this goal.