

Where Do Airline Pilots Keep Their Uniforms?



For each exercise, write the letter of the answer in the box containing the exercise number.

In Exercises 1-6, match the inequality with its graph.

1 $x < 1$

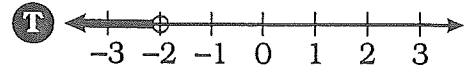
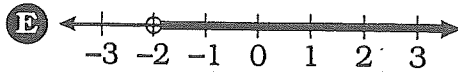
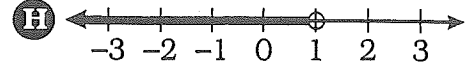
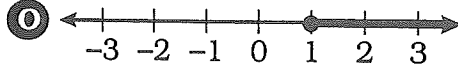
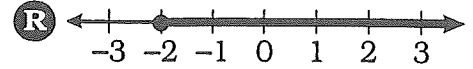
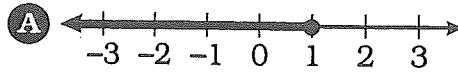
2 $x \leq 1$

3 $x > -2$

4 $x \geq -2$

5 $-2 > x$

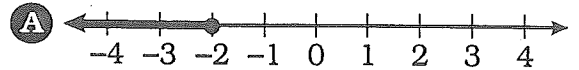
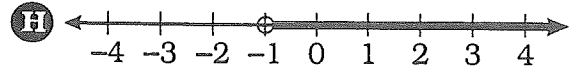
6 $1 \leq x$



In Exercises 7-18, solve the inequality. Then graph the solution.

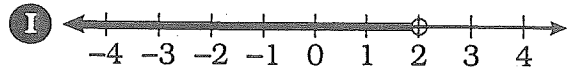
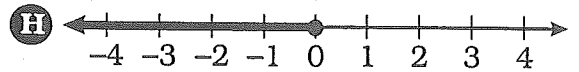
7 $4n + 1 < 9$

8 $7a - 2 \geq 5$



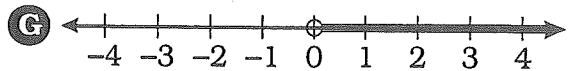
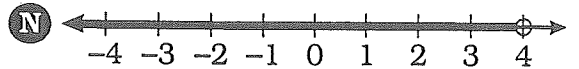
9 $3y + 10 \leq 4$

10 $8k - 3 > -27$



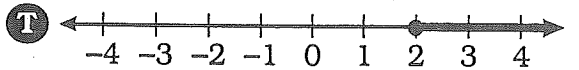
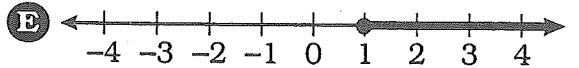
11 $\frac{x}{2} + 9 < 11$

12 $\frac{d}{6} - 4 \geq -5$



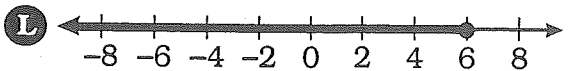
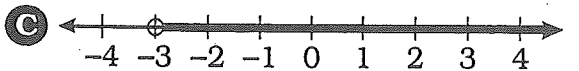
13 $\frac{u}{15} - 2 \leq -2$

14 $5p - 14 < 26$



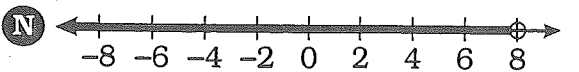
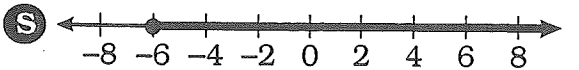
15 $18 \leq 7b + 4$

16 $-9 < 12y + 3$



17 $-14 \geq \frac{x}{3} - 16$

18 $5 < \frac{m}{8} + 5$



7	11	5	13	3	10	17	6	15	1	8	12	16	2	14	18	9	4
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Variables and Equations

Solving Inequalities with Variables on Both Sides

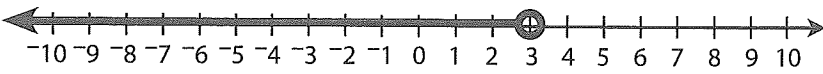
$$-10x + > 4x - 42$$

$$-10x + 10x > 4x + 10x - 42$$

$$0 > 14x - 42$$

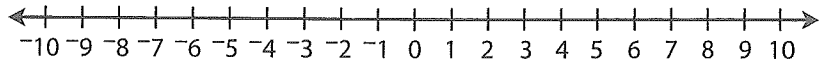
$$42 > 14x - 42 + 42$$

$$42 > 14x$$

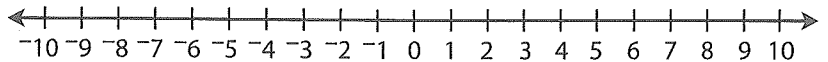
$$x < 3$$


Solve each inequality and graph its solution set.

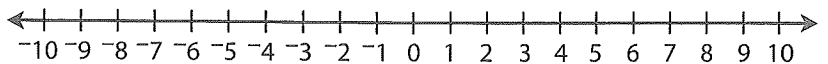
1. $7m + 9 \leq 6(m + 3)$



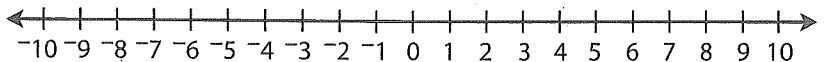
2. $3(2x + 4) \geq 7x + 8$



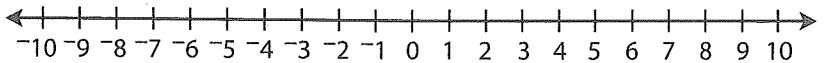
3. $2(k + 4) \leq 3(2k - 4)$



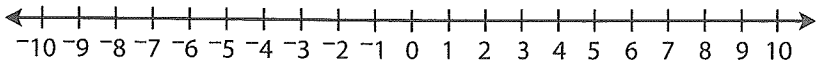
4. $5x + (-3) > 2(3 + x)$



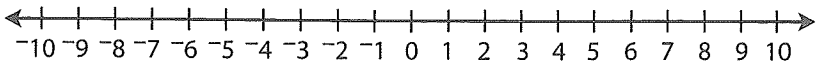
5. $5c + 2 < 2c + (-7)$



6. $5x - 20 > 2x + 1$



7. $3(s - 4) \geq 4s - 12$



8. $-9 - e > 3e + 11$

