

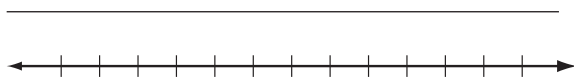
LESSON

Practice B

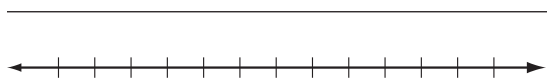
3-5 Solving Inequalities with Variables on Both Sides

Solve each inequality and graph the solutions.

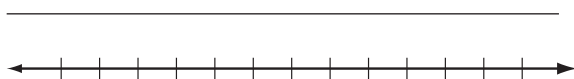
1. $2x + 30 \geq 7x$



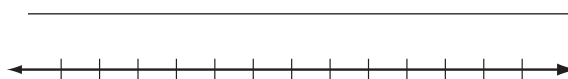
2. $2k + 6 < 5k - 3$



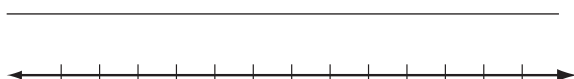
3. $3b - 2 \leq 2b + 1$



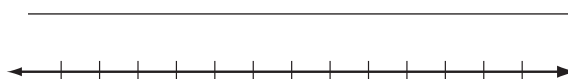
4. $2(3n + 7) > 5n$



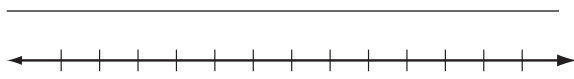
5. $5s - 9 < 2(s - 6)$



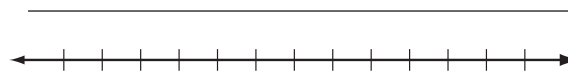
6. $-3(3x + 5) \geq -5(2x - 2)$



7. $1.4z + 2.2 > 2.6z - 0.2$



8. $\frac{7}{8}p - \frac{1}{4} \leq \frac{1}{2}p$



Solve each inequality.

9. $v + 1 > v - 6$



10. $3(x + 4) \leq 3x$



11. $-2(8 - 3x) \geq 6x + 2$



Write and solve an inequality for each problem.

12. Ian wants to promote his band on the Internet. Site A offers website hosting for \$4.95 per month with a \$49.95 startup fee. Site B offers website hosting for \$9.95 per month with no startup fee. For how many months would Ian need to keep the website for Site B to be less expensive than Site A?



13. For what values of x is the area of the rectangle greater than the perimeter?

