

**2.2 Practice B**

In Exercises 1–9, solve the inequality. Graph the solution.

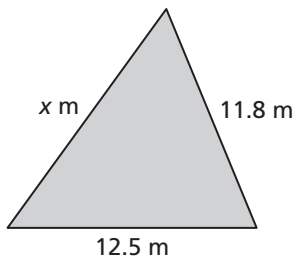
1.  $w + 6 \leq 2$
2.  $m - 3 > -6$
3.  $4 < 4 + s$
4.  $7 \leq x + 15$
5.  $p - (-3) > 10$
6.  $q + 6 - 5 > 4$
7.  $3 - 11 + t > -2$
8.  $4 \leq 6a - 4a - 2$
9.  $22 + (-9c) + 10c < 5 + 1$

In Exercises 10–13, write the sentence as an inequality. Then solve the inequality.

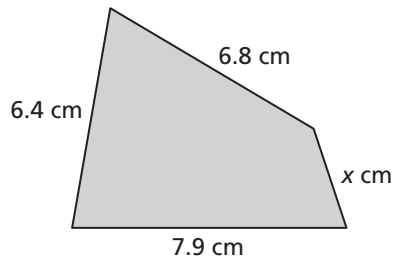
10. A number plus 10 is less than 34.
11. A number minus 8 is at least 14.
12. The sum of a number and 7 is less than 15.
13. Nine is less than or equal to the difference of a number and 1.
14. You order a new pair of running shoes from a website that offers free shipping on orders of \$75 or more. Your shoes cost \$69.95.
  - a. Write and solve an inequality that represents how much more you must spend to get free shipping.
  - b. The cost of shipping your shoes is \$7.79. Would you purchase another item in order to get free shipping? Explain.

In Exercises 15 and 16, write and solve an inequality to find the possible values of  $x$ .

15. Perimeter  $< 37.8$  meters



16. Perimeter  $\leq 24.1$  centimeters



17. Write and solve an inequality that represents the numbers that are *not* solutions of each inequality.
- a.  $x - 7 \leq -10$
  - b.  $x + 3 > 2.5$