

2.1 Practice B

In Exercises 1–4, write the sentence as an inequality.

- A number x plus 10 is more than 2.
- Twelve is no less than the sum of a number n and 3.
- One-half of a number p is at least 100.
- Six is greater than or equal to the quotient of a number y and 2.5.

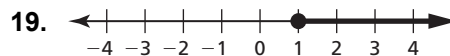
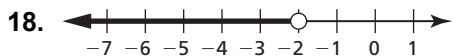
In Exercises 5–10, tell whether the value is a solution of the inequality.

- $-5 \leq -\frac{z}{3}$; $z = 2$
- $\frac{10}{r} \geq 1$; $r = 5$
- $21 \geq -4t + 3$; $t = -6$
- $-9 \div (3a) > -2$; $a = 3$
- $12 < \frac{18}{3g} + 12$; $g = -2$
- $\frac{4n}{8} + 3 \leq 2$; $n = 4$
- The winning swim team earned 245 points. The other teams earned at least 72 points less.
 - Write an inequality that represents the points that the other teams earned.
 - Was one of the teams able to earn 180 points? Explain.

In Exercises 12–17, graph the inequality.

- $-2 \geq k$
- $-4 < f$
- $m \leq -3$
- $-y < 3$
- $\frac{1}{3} \geq j$
- $n < -|-4|$

In Exercises 18 and 19, write an inequality that represents the graph.



- An upcoming marathon's qualifying time for males age 18–34 is 3 hours.
 - Write an inequality that represents how many hours a male runner could take to run a marathon in order to qualify.
 - Will a runner with a fastest marathon time of 3 hours 9 minutes qualify for the upcoming marathon? Explain.