

200

Incorrect

50

Incorrect

For each set of rational numbers in Exercises 9 and 10, draw a number line and locate the points. Remember to choose an appropriate scale.

9.  $-\frac{2}{8}, \frac{1}{4}, -1.5, 1\frac{3}{4}$

10.  $-1.25, -\frac{1}{3}, 1.5, -\frac{1}{6}$

11. Order the numbers from least to greatest.

23.6

 $-45.2$ 

50

 $-0.5$ 

0.3

 $\frac{3}{5}$  $-\frac{4}{5}$

Copy each pair of numbers in Exercises 12-19. Then insert  $<$ ,  $>$ , or  $=$  to make each a true statement.

12.  $3 \blacksquare 0$

13.  $-23.4 \blacksquare 23.4$

14.  $46 \blacksquare -79$

15.  $-75 \blacksquare -90$

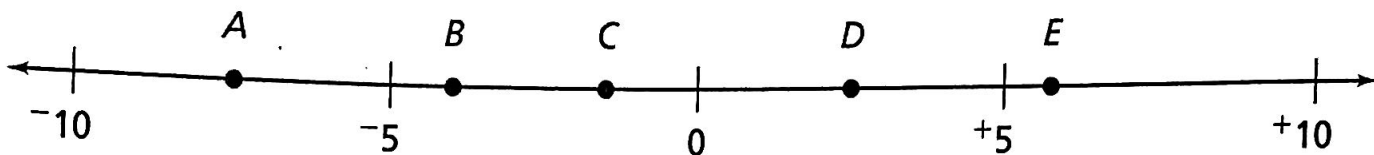
16.  $-300 \blacksquare 100$

17.  $-1,000 \blacksquare -999$

18.  $-1.73 \blacksquare -1.730$

19.  $-4.3 \blacksquare -4.03$

20. a. Estimate values for points A-E.



b. On a copy of the number line, graph the following numbers.

$$-9 \quad 10.5 \quad \frac{1}{2} \quad -\frac{5}{2}$$

c. Describe the location of a number and its opposite on the number line.

21. For each pair of numbers, identify which number is farther from  $+1$ . Explain your reasoning.

a.  $-7$  or  $+3$

b.  $-10$  or  $+7$

22. Identify the temperature that is halfway between each pair of temperatures.

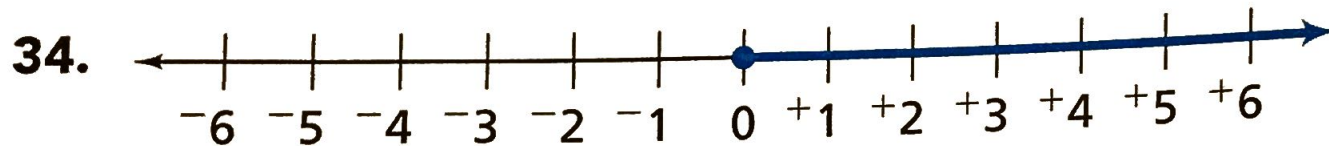
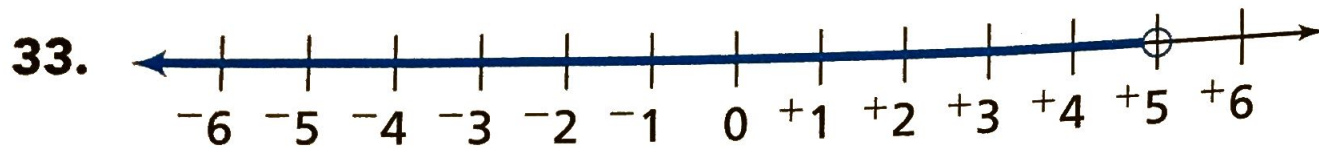
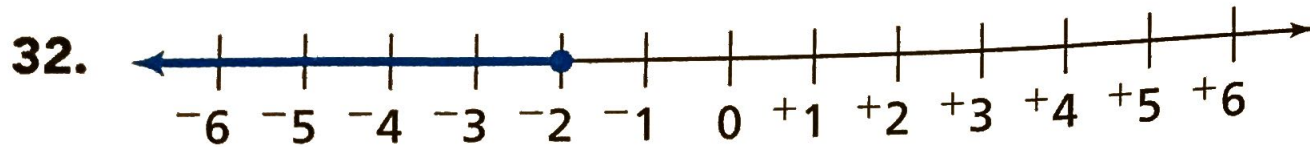
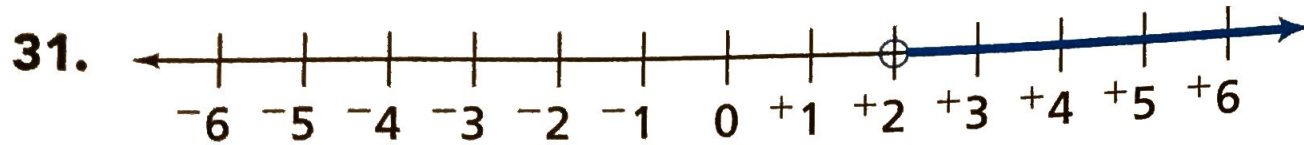
a.  $-23^\circ\text{F}$  and  $+23^\circ\text{F}$

b.  $-20^\circ\text{F}$  and  $+10^\circ\text{F}$

c.  $+20^\circ\text{F}$  and  $-10^\circ\text{F}$

29.  $5 < x < 5$  30.  $x > 5$

For Exercises 31–34, write an inequality for each set of numbers on the number line.



35. The school cafeteria can hold at most 150 people.

- Write a number sentence to represent the number of people that can be in the cafeteria at any time during the day.
- Graph your answer to part (a) on a number line.