

Practice 1-3

Integers and Absolute Value

Write an integer to represent each situation.

1. The top of the world's lowest known active volcano is 160 ft below sea level.

3. Jenni owes her friend \$20.

2. The football team gained three yards on a play.

4. The temperature yesterday was five degrees above zero.

Use the information in the graph at the right for questions 5-8.

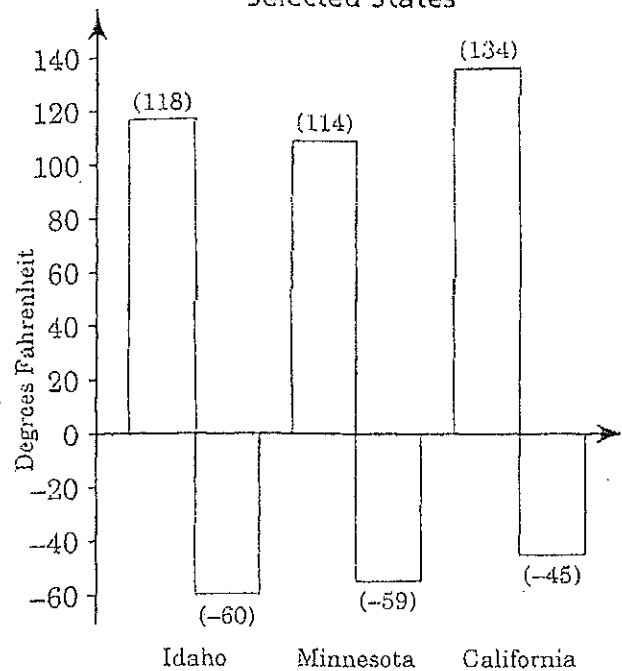
5. The highest outdoor temperature ever recorded in Nevada, 122°F , was recorded on June 23, 1954. Was it ever that hot in Idaho? Explain.

6. Which state had a recorded high temperature of 134°F ?

7. The lowest temperature ever recorded in Maine, -48°F , was recorded on January 17, 1925. Was it ever that cold in Minnesota? Explain.

8. Which state on the graph had a recorded low temperature of 60°F below zero?

High and Low Temperatures in Selected States



Compare. Write $>$, $<$, or $=$.

9. -12 10

10. 9 -12

11. $|4|$ $|-9|$

12. $|26|$ $|-26|$

13. $|42|$ $|-93|$

14. 53 -21

15. $|6|$ 0

16. $|9|$ $|-13|$

Order the integers in each set from least to greatest.

17. $0, -5, 5, -15, 15, 25, -25$

18. $6, -4, -8, 3, 1, -2, 7$

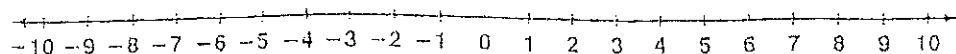
19. $27, -10, -6, -18, 3, 9, -8$

20. $-3, -7, 7, 4, -9, -4, -1$

Reteaching 1-3

Integers and Absolute Value

Integers are the set of whole numbers and their opposites. Negative integers are to the left of zero on a number line. Positive integers are to the right of zero on a number line.



-5 is to the left of -2.

-5 is less than -2.

$$-5 < -2$$

-7 is to the left of 4.

$$-7 < 4$$

6 is to the right of 3.

6 is greater than 3.

$$6 > 3$$

The *absolute value* of a number is its distance from zero on a number line.

The absolute value of 5 is written as $|5|$.

-3 is 3 units from 0.

$$|-3| = 3$$

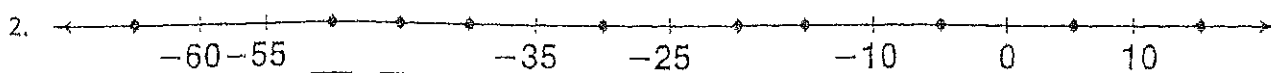
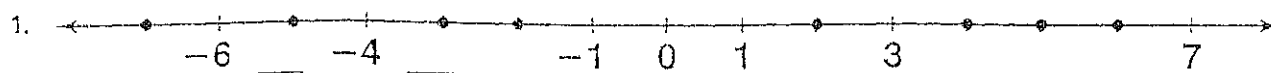
2 is 2 units from 0.

$$|2| = 2$$

0 is 0 units from 0.

$$|0| = 0$$

Write the integers missing from each number line.



Compare. Write $<$, $>$, or $=$.

3. $6 \square 0$

4. $-8 \square -5$

5. $-2 \square 2$

6. $12 \square 5$

7. $3 \square -2$

8. $-4 \square -6$

9. $-5 \square 5$

10. $-5 \square -10$

11. $0 \square 0$

12. $8 \square -1$

13. $-4 \square 0$

14. $4 \square -2$

Find each absolute value.

15. $|3|$

16. $|-2|$

17. $|10|$

18. $|-4|$

19. $|4|$

20. $|0|$

21. $|-1|$

22. $|-18|$

23. $|50|$

