

PreAlgebra - Lesson 2-1 Homework Practice

Integers and Absolute Value

Write an integer for each situation. Identify its opposite and describe its meaning. Then graph the integer and its opposite on a number line.

1. an elevator ascends 4 floors

2. to be at par

3. 11°F below zero

4. a profit of \$52 on a sale

Replace each \bullet with $<$, $>$, or $=$ to make a true sentence.

5. $0 \bullet -5$

6. $10 \bullet -10$

7. $-8 \bullet 3$

8. $11 \bullet 11$

9. $-18 \bullet -18$

10. $-18 \bullet 18$

11. $18 \bullet -18$

12. $18 \bullet 18$

13. $-120 \bullet -95$

14. $35 \bullet -12$

15. $-35 \bullet 12$

16. $41 \bullet 17$

Evaluate each expression.

17. $|-7|$

18. $|14|$

19. $|-11|$

20. $|-9| - |6|$

21. $|-18| - |-8|$

22. $|-12| + |1|$

23. $|8 - 4|$

24. $|23| - |18|$

25. $|-16| + |-22|$

Evaluate each expression if $a = -3$, $b = 0$, and $c = 1$.

26. $|a| - |c|$

27. $|a| + |c|$

28. $|ab| + c$

29. $5 - |ac|$

30. $c + |-5|$

31. $c + |5|$

32. At 6:15 a.m. the temperature was -8°F . At 12:15 p.m. the temperature was -12°F . At 6:16 p.m. the temperature was -10°F . Order the temperatures from least to greatest.