

In 1, 3 and 5, fill in the blanks.

1. _____ numbers are greater than 0 and _____ numbers are less than 0.
3. To _____ an integer means to locate it on the number line and highlight it with a dot.
5. The _____ _____ of a number is the distance between the number and 0 on the number line.
7. Represent each of these situations using a signed number.
 - a. \$225 overdrawn
 - b. 10 seconds before liftoff
 - c. 3 degrees below normal
 - d. A deficit of \$12,000
 - e. A 1-mile retreat by an army
11. On the number line, what number is
 - a. 3 units to the right of -7?
 - b. 4 units to the left of 2?

17. Complete the table by finding the opposite and the absolute value of the given numbers.

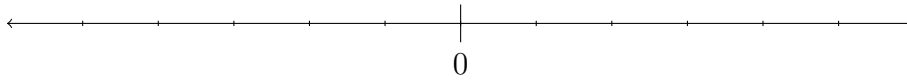
Number	Opposite	Absolute value
-25		
39		
0		

22. Which of the following expressions contains a minus sign?

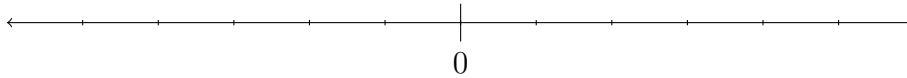
15 - 8 -(-15) -15

In 23 and 25, Graph the given numbers on the number line.

23. -3, 4, 3, 0, -1



25. The integers that are less than 3 but greater than -5.



In 31 - 37 odd, place a $<$ or $>$ symbol in the box to make a true statement.

31. -5 5

35. -10 -17

33. -12 -6

37. -325 -523

In 39 - 45 odd, state whether the statement is true or false.

39. $-15 \leq -14$

43. $-1,255 \geq -1,254$

41. $210 \geq 210$

45. $0 \leq -8$

In 47 - 53 odd, find the absolute value.

47. $|9|$

51. $|-14|$

49. $|-8|$

53. $|180|$

In 55 - 61 odd, simplify each arithmetic expression.

55. $-(-11)$

59. $-(-102)$

57. $-(-4)$

61. $-(-561)$

In 71 and 73, place a $<$ or $>$ symbol in the box to make a true statement.

71. $|-12|$ $-(-7)$

73. $-|-71|$ $-|-65|$

83. HORSE RACING In the 1973 Belmont Stakes, *Secretariat* won by 31 lengths over second place finisher, *Twice a Prince*. Some experts call it the greatest performance by a thoroughbred in the history of racing. Express the position of *Twice a Prince* compared to *Secretariat* as a signed number.

85. FREE FALL A boy launches a water balloon from the top of a building, as shown in the text on page 141. At that instant, his friend starts a stopwatch and keeps track of the time as the balloon sails above the building and then falls to the ground. Use the number line to estimate the position of the balloon at each time listed in the table below.

Time	Position of balloon
0 sec	
1 sec	
2 sec	
3 sec	
4 sec	

88. FLOODING A week of daily reports listing the height of a river in comparison to flood stage is given in the table. Complete the bar graph shown below.

Flood Stage Report

Sun.	2 ft below
Mon.	3 ft over
Tue.	4 ft over
Wed.	2 ft over
Thu.	1 ft below
Fri.	3 ft below
Sat.	4 ft below

