Review for Chapter Two Exam

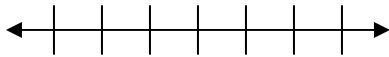**1.** List the integers.

Represent each quantity by an integer.

2. a climb of 128 feet down into a subterranean cave
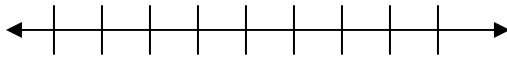
3. finding 58 cents
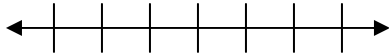
Graph the numbers on the number line.

4. 0, 2, 4, 6

5. −11, -9, -7, -5

6. −7, -5, -3, -1

Insert <, >, = to make the statement true.

7. 8 _____ -5

8. −76 _____ -22

9. 0 _____ -42

10. $-|-17|$ _____ $-|-34|$

Simplify.

11. $|-4|$

12. $|4|$

Find the opposite of each integer.

13. 0

14. 24

Simplify.

15. $-(-11)$

16. $-|-24|$

Add the numbers using the number line.

17. $-6 + 1$

Perform the indicated operation.

18. $-36 + (-45)$

19. $0 \cdot (-17)$

20. $-90 + (+50)$

21. $(-8)(-3)(4)$

22. $9 + (-79)$

23. $0 - (-17)$

24. $11 \cdot (-17)$

25. $-98 + 0$

26. $-19 \cdot (-6)$

27. $\dfrac{17}{0}$

28. $\dfrac{60}{-3}$

29. $\dfrac{0}{78}$

30. $(3)(-3)(-3)$

31. $4 - (-4)$

32. $-15 - 15$

33. $-4 - 0 - 12 - (-13) + 1$

34. $-19 - 1 + (-17)$

35. $-15 + 11 - (-19) - 3$

36. $-20 + 15 + (-12)$

37. $7 + (-18) + 1 + (-15) + 4 + (-19)$

38. $6 + 13 + (-19)$

Evaluate $x + y + z$ for the given replacement values.

39. $x = -20$, $y = 10$, and $z = -7$

40. $x = -20$, $y = 10$, and $z = -4$

Evaluate $x - y$ for the given replacement values.

41. $x = 13$ and $y = -27$

42. $x = -23$ and $y = 8$

Evaluate each expression for the given replacement values.

43. $\dfrac{x}{y}$ for $x = -41$ and $y = 0$

44. $\dfrac{x}{y}$ for $x = 0$ and $y = -31$

45. xy for $x = -7$ and $y = -2$

Evaluate each expression for $x = -2$, $y = 3$, $z = -4$.

46. $14 - z^2$

47. $(4z)(-9x - 5y)$

Solve.

48. A deep-sea diver dives from the surface to 132 feet below the surface. She then dives down 12 more feet. Find the diver's depth.

49. Tori has $209 in her checking account. She writes a check for $51, makes a deposit for $105, and then writes another check for $101. Find the amount left in her account. (Write the amount as an integer.)

50. In a card game, it is possible to have a negative score. If Mia's score is 15, what is her new score if she loses 20 points?

51. A weather forecaster predicts that the temperature will drop 6 degrees each hour for the next 8 hours. If the temperature is 9 degrees before the temperature starts falling, what is the temperature after the drop?

52. Subtract 36 from -12.

53. The temperature at 5 p.m. on January 3 was -6° Fahrenheit. By 9 p.m. the temperature had risen 9 degrees. Find the temperature at 9 p.m.

54. Ben lost $475 on each of 5 consecutive days in the stock market. If he had $16,975 before his loss, how much does he have after his loss?

55. The formula for converting a temperature from Fahrenheit to Celsius is $F = \dfrac{9}{5}C + 32$. When $C = $ -5°, what does F equal?

Evaluate.

56. $(-6)^5$ **57.** $(-1)^6$

Simplify.

58. $(28 + 16) \square (15 - 10)$ **59.** $-7 \square 17 - 9 \square 7$ **60.** $-8 + 22 \square 27 + 5$

61. $-\left|-16\right| - \left|-10 - 8\right|$ **62.** $-\left|21\right| - \left|10\right|$ **63.** $(-5)^2 - 9^2$ **64.** -2^3

ANSWERS

1. {…-3, -2, - 1, 0, 1, 2, 3,…}   **2.** −128   **3.** 58   **4.**
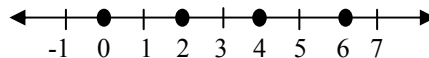
5.

6.
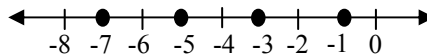
7. 8 > -5   **8.** −76 < -22   **9.** >   **10.** >   **11.** 4   **12.** 4   **13.** 0   **14.** −24   **15.** 11   **16.** −24   **17.** −5
18. −81   **19.** 0   **20.** −40   **21.** 96   **22.** −70   **23.** 17   **24.** −187   **25.** −98
26. 114   **27.** Undefined   **28.** −20   **29.** 0   **30.** 27   **31.** 8   **32.** −30   **33.** −2   **34.** −37
35. 12   **36.** −17   **37.** −40   **38.** 0   **39.** −17   **40.** −14   **41.** 40   **42.** −31   **43.** Undefined
44. 0   **45.** 14   **46.** −2   **47.** −48   **48.** 144 ft. below the surface   **49.** 162 dollars   **50.** −5 points
51. -39°   **52.** −48   **53.** 3°   **54.** $14,600   **55.** 23°   **56.** −7776   **57.** 1   **58.** 220   **59.** −182
60. 591   **61.** −34   **62.** −31   **63.** −56   **64.** -8