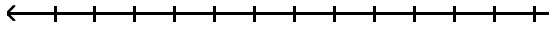


Name _____

Find the sum using a number line.

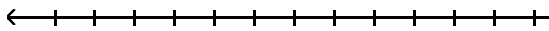
1) $3 + (-2)$



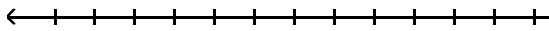
2) $-3 + 5$



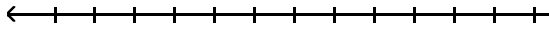
3) $-1 + 6$



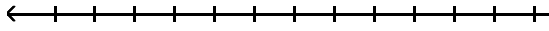
4) $-4 + (-6)$



5) $-3 + (-8)$



6) $10 + (-10)$



Find the sum without the use of a number line.

7) $-9 + 0$

8) $10 + (-10)$

9) $-13 + (-13)$

10) $-26 + (-10)$

11) $-10 + 3$

12) $16 + (-3)$

13) $3 + (-17)$

14) $-62 + 47$

15) $25 + (-10)$

16) $1.6 + (-2.5)$

25) $14 + (-13) + 1 + (-11) + 10 + (-17)$

17) $-\frac{4}{9} + \left(-\frac{4}{9}\right)$

26) $5.3 + (-2.9) + (-3.5)$

18) $\left(\frac{4}{7}\right) + \left(-\frac{1}{2}\right)$

27) $6.7 + (-4.0) + (-2.1)$

19) $1 + (-15) + (-7)$

28) $7.4 + (-2.3) + (-6.9)$

20) $17 + 6 + (-23)$

29) $-5.1 + (-3.3) + (-5.7)$

21) $-13 + 2 + (-8)$

30) $-1.2 + (-8.9) + (-3.3)$

22) $-23 + (-13) + (-7) + (-10)$

31) $-11.8 + 20.1 + (-20.9)$

23) $7 + (-19) + 4 + (-16)$

32) $-7.1 + (-1.9) + (-2.7)$

24) $-1 + (-16) + (-12) + (-5) + 13 + (-11)$

33) $-1.2 + (-7.3) + (-6.4)$

34) $-14.1 + 23.5 + (-9.1)$

Simplify the algebraic expression.

35) $-2x + 6x$

36) $-3x + 8x$

37) $-8x + 4x$

38) $7y + (-2y)$

39) $-3a + (-5a)$

40) $3x + (-10) + (-9x) + 3$

41) $-3 + 2x + 5 + (-7x)$

42) $-2 + 2x + 6 + (-6x)$

43) $3(9y - 8) + 8$

44) $4(2x - 5) - 4x + 8$

45) $8(10 - 5a) + 6(5a - 2)$

46) $2y + (-7y)$

47) $-3a + (-9a)$

48) $3x + (-7) + (-8x) + 1$

49) $-2 + 2x + 5 + (-9x)$

50) $7(9y - 4) + 4$

51) $5(2x - 7) - 4x + 10$

52) $4(2x - 6) - 4x + 7$

53) $5(4 - 3a) + 6(4a - 7)$

54) $6(7 - 3a) + 2(7a - 8)$

Solve.

- 55) The temperature at 4 p.m. on January 6 was -6°F . By 10 p.m. the temperature had risen 19 degrees. Find the temperature at 10 p.m.
- 56) The temperature at 3 p.m. on January 11 was -13°F . By 9 p.m. the temperature had risen 16 degrees. Find the temperature at 9 p.m.
- 57) A deep-sea diver dives from the surface to 45 feet below the surface. She then dives down 17 more feet. Find the diver's depth.
- 58) A deep-sea diver dives from the surface to 140 feet below the surface. She then dives down 28 more feet. Find the diver's depth.
- 59) A deep-sea diver dives from the surface to 218 meters below the surface and then swims up 6 meters, down 18 meters, down another 26 meters, and then up 25 meters. Find the diver's depth after these movements.
- 60) A deep-sea diver dives from the surface to 197 meters below the surface and then swims up 10 meters, down 17 meters, down another 27 meters, and then up 23 meters. Find the diver's depth after these movements.
- 61) The difference between a country's exports and imports is called the country's trade balance. If one country had a trade balance of $-\$102$ billion in 1995, $\$157$ billion in 1981, and $-\$35$ billion in 1979. What was the total trade balance for these years?
- 62) The difference between a country's exports and imports is called the country's trade balance. If one country had a trade balance of $-\$87$ billion in 1978, $\$154$ billion in 1983, and $-\$34$ billion in 1982. What was the total trade balance for these years?
- 63) Scores in golf can be positive or negative integers. For example, a score of 8 over par can be represented by $+8$ and a score of 4 under par can be represented by -4 . If Donna had scores of 5 over par, 6 under par, and 6 under par for three games of golf, what was her total score?
- 64) Scores in golf can be positive or negative integers. For example, a score of 6 over par can be represented by $+6$ and a score of 4 under par can be represented by -4 . If Donna had scores of 4 over par, 4 under par, and 5 under par for three games of golf, what was her total score?
- 65) Scores in golf can be positive or negative integers. For example, a score of 7 over par can be represented by $+7$ and a score of 4 under par can be represented by -4 . If Donna had scores of 6 over par, 5 under par, and 6 under par for three games of golf, what was her total score?

Answer Key

Testname: 01.5V01B

- 1) 1
- 2) 2
- 3) 5
- 4) -10
- 5) -11
- 6) 0
- 7) -9
- 8) 0
- 9) -26
- 10) -36
- 11) -7
- 12) 13
- 13) -14
- 14) -15
- 15) 15
- 16) -0.9
- 17) $-\frac{8}{9}$
- 18) $\frac{1}{14}$
- 19) -21
- 20) 0
- 21) -19
- 22) -53
- 23) -24
- 24) -32
- 25) -16
- 26) -1.1
- 27) 0.6
- 28) -1.8
- 29) -14.1
- 30) -13.4
- 31) -12.6
- 32) -11.7
- 33) -14.9
- 34) 0.3
- 35) $4x$
- 36) $5x$
- 37) $-4x$
- 38) $5y$
- 39) $-8a$
- 40) $-6x - 7$
- 41) $-5x + 2$
- 42) $-4x + 4$
- 43) $27y - 16$
- 44) $4x - 12$
- 45) $-10a + 68$
- 46) $-5y$
- 47) $-12a$

Answer Key

Testname: 01.5V01B

48) $-5x - 6$

49) $-7x + 3$

50) $63y - 24$

51) $6x - 25$

52) $4x - 17$

53) $9a - 22$

54) $-4a + 26$

55) 13°F

56) 3°F

57) 62 feet below the surface

58) 168 feet below the surface

59) 231 meters below the surface

60) 208 meters below the surface

61) 20 billion dollars

62) 33 billion dollars

63) 7 under par

64) 5 under par

65) 5 under par