

Name _____

Find the sum using a number line.

1) $1 + (-5)$



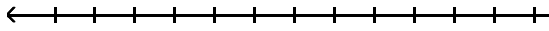
2) $-3 + 1$



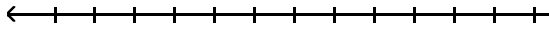
3) $-5 + 4$



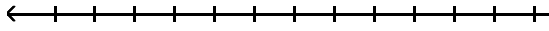
4) $-5 + (-2)$



5) $-4 + (-3)$



6) $9 + (-9)$



Find the sum without the use of a number line.

7) $-2 + 0$

8) $7 + (-7)$

9) $-8 + (-8)$

10) $-25 + (-11)$

11) $-9 + 3$

12) $15 + (-3)$

13) $4 + (-17)$

14) $-65 + 41$

15) $29 + (-11)$

16) $4.6 + (-4.0)$

25) $14 + (-15) + 18 + (-15) + 3 + (-4)$

17) $-\frac{5}{8} + \left(-\frac{1}{8}\right)$

26) $8.9 + (-1.0) + (-5.4)$

18) $\left(\frac{1}{6}\right) + \left(-\frac{4}{7}\right)$

27) $7.8 + (-7.8) + (-8.8)$

19) $20 + (-4) + (-10)$

28) $3.5 + (-3.7) + (-5.9)$

20) $22 + 19 + (-17)$

29) $-7.2 + (-2.4) + (-4.0)$

21) $-13 + 7 + (-19)$

30) $-4.6 + (-6.3) + (-3.3)$

22) $-13 + (-25) + (-19) + (-1)$

31) $-16.5 + 6.7 + (-9.0)$

23) $15 + (-8) + 15 + (-4)$

32) $-5.9 + (-1.5) + (-3.0)$

24) $-6 + (-18) + (-16) + (-8) + 4 + (-20)$

33) $-5.7 + (-7.4) + (-4.1)$

34) $-15.7 + 12.9 + (-19.3)$

Simplify the algebraic expression.

35) $-3x + 5x$

36) $-2x + 5x$

37) $-7x + 5x$

38) $7y + (-4y)$

39) $-4a + (-8a)$

40) $2x + (-3) + (-9x) + 5$

41) $-4 + 3x + 6 + (-6x)$

42) $-7 + 2x + 10 + (-7x)$

43) $9(7y - 5) + 5$

44) $4(2x - 8) - 4x + 6$

45) $4(6 - 2a) + 3(10a - 7)$

46) $2y + (-6y)$

47) $-6a + (-9a)$

48) $2x + (-3) + (-8x) + 2$

49) $-10 + 3x + 3 + (-6x)$

50) $2(5y - 7) + 7$

51) $3(2x - 8) - 4x + 7$

52) $6(2x - 6) - 4x + 9$

53) $8(4 - 10a) + 4(2a - 2)$

54) $6(5 - 4a) + 7(2a - 7)$

Solve.

- 55) The temperature at 4 p.m. on January 19 was -6°F . By 7 p.m. the temperature had risen 25 degrees. Find the temperature at 7 p.m.
- 56) The temperature at 2 p.m. on January 20 was -15°F . By 8 p.m. the temperature had risen 18 degrees. Find the temperature at 8 p.m.
- 57) A deep-sea diver dives from the surface to 61 feet below the surface. She then dives down 14 more feet. Find the diver's depth.
- 58) A deep-sea diver dives from the surface to 84 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 242 meters below the surface and then swims up 8 meters, down 17 meters, down another 29 meters, and then up 23 meters. Find the diver's depth after these movements.
- 60) A deep-sea diver dives from the surface to 178 meters below the surface and then swims up 8 meters, down 16 meters, down another 29 meters, and then up 25 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 $-\$90$ billion in 1988, $\$114$ billion in 1996, and $-\$31$ billion in 1994. 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 $-\$102$ billion in 1976, $\$119$ billion in 1989, and $-\$53$ billion in 1993. 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 3 under par can be represented by -3 . If Donna had scores of 2 over par, 4 under par, and 5 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 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 2 over par, 5 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 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 1 over par, 6 under par, and 8 under par for three games of golf, what was her total score?

Answer Key

Testname: 01.5V01A

- 1) -4
- 2) -2
- 3) -1
- 4) -7
- 5) -7
- 6) 0
- 7) -2
- 8) 0
- 9) -16
- 10) -36
- 11) -6
- 12) 12
- 13) -13
- 14) -24
- 15) 18
- 16) 0.6
- 17) $-\frac{3}{4}$
- 18) $-\frac{17}{42}$
- 19) 6
- 20) 24
- 21) -25
- 22) -58
- 23) 18
- 24) -64
- 25) 1
- 26) 2.5
- 27) -8.8
- 28) -6.1
- 29) -13.6
- 30) -14.2
- 31) -18.8
- 32) -10.4
- 33) -17.2
- 34) -22.1
- 35) $2x$
- 36) $3x$
- 37) $-2x$
- 38) $3y$
- 39) $-12a$
- 40) $-7x + 2$
- 41) $-3x + 2$
- 42) $-5x + 3$
- 43) $63y - 40$
- 44) $4x - 26$
- 45) $22a + 3$
- 46) $-4y$
- 47) $-15a$

Answer Key

Testname: 01.5V01A

48) $-6x - 1$

49) $-3x - 7$

50) $10y - 7$

51) $2x - 17$

52) $8x - 27$

53) $-72a + 24$

54) $-10a - 19$

55) 19°F

56) 3°F

57) 75 feet below the surface

58) 112 feet below the surface

59) 257 meters below the surface

60) 190 meters below the surface

61) -7 billion dollars

62) -36 billion dollars

63) 7 under par

64) 8 under par

65) 13 under par