



Answer Key: Page 4-6

Write the numbers in increasing order.

1.  $\frac{1}{2}$ , 5, -1.5,  $\frac{3}{8}$ , -2

2. -4.75, 0,  $-1\frac{3}{4}$ ,  $\sqrt{25}$ , 3

Add the following Integers:

3.  $-20 + 15 =$

8.  $-20 + 30 + (-5) =$

4.  $8 + (-50) =$

9.  $21 + (-34) + (-70) =$

5.  $-47 + 25 =$

10.  $14 + (-15) + (-14) + 18 =$

6.  $-47 + (-23) =$

11.  $-27 + (-50) + 75 + 19 =$

7.  $-71 + 121 =$

12.  $80 + 25 + (-10) + (-18) =$

Subtract the following Integers:

13.  $27 - 25 =$

18.  $217 - (-275) =$

14.  $110 - 147 =$

19.  $521 - 450 - (-47) =$

15.  $2 - 25 =$

20.  $-41 - 25 - (-89) =$

16.  $-47 - (-47) =$

21.  $187 - (-80) - (-50) =$

17.  $-115 - 275 =$

22.  $-470 - 87 - (-57) =$

Multiply/Divide the following Integers.

23.  $(-9)(-2)(5) =$

28.  $\frac{-57}{0}$

24.  $-4 \cdot 7 \cdot -2 =$

29.  $\frac{0}{2}$

25.  $(10)(5)(-2)(-5) =$

30.  $-110 \div 5 =$

26.  $-8 \cdot 3 \cdot -10 \cdot -2 =$

31.  $\frac{-25}{-\sqrt{25}}$

27.  $(5)(-3)(5)(7) =$

32.  $-49 \div -7 =$

Use the Distributive Property to simplify the following expressions:

33.  $5(-n+4) =$

38.  $7w(4w+9)+7(2w+3) =$

34.  $-100\left(y-\frac{1}{2}\right) =$

39.  $10(c+4)-5(c+4) =$

35.  $7r+5(r+4) =$

40.  $2y(5y+20)-2(y+21) =$

36.  $-(5t+7)-4 =$

41.  $-5a(7a+7)+a(a+20) =$

37.  $8(b+5)+2b =$

42.  $z(4+3z)-5(7z+5) =$

Combine Like Terms and Simplify.

43.  $4m+21m-30m =$

48.  $5n(n+1)+4n^2-n+5n =$

44.  $r+4r+15-5r =$

49.  $52m-5m+40n-7m-10n =$

45.  $21ab-(-28ab) =$

50.  $20(4x)+5(4x)+x =$

46.  $31xy^2+9xy^2+7xy^2 =$

51.  $-10ab+3+-9ab-ab^2 =$

47.  $t+47t+1-8-t =$

52.  $3r^2(5r+2)-r^2(5r+2)+1 =$

### Answer Key

Write the numbers in increasing order.

1.  $\frac{1}{2}, 5, -1.5, \frac{3}{8}, -2$

**-2, -1.5, 3/8, 1/2, 5**

2.  $-4.75, 0, -1\frac{3}{4}, \sqrt{25}, 3$

**-4.75, -1 3/4, 0, 3, 5**

Add the following Integers:

3.  $-20 + 15 = -5$

8.  $-20 + 30 + (-5) = 5$

4.  $8 + (-50) = -42$

9.  $21 + (-34) + (-70) = -83$

5.  $-47 + 25 = -22$

10.  $14 + (-15) + (-14) + 18 = 3$

6.  $-47 + (-23) = -70$

11.  $-27 + (-50) + 75 + 19 = 17$

7.  $-71 + 121 = 50$

12.  $80 + 25 + (-10) + (-18) = 77$

Subtract the following Integers:

13.  $27 - 25 = 2$

18.  $217 - (-275) = 492$

14.  $110 - 147 = -37$

19.  $521 - 450 - (-47) = 118$

15.  $2 - 25 = -23$

20.  $-41 - 25 - (-89) = 23$

16.  $-47 - (-47) = 0$

21.  $187 - (-80) - (-50) = 317$

17.  $-115 - 275 = -390$

22.  $-470 - 87 - (-57) = -500$

Multiply/Divide the following Integers.

23.  $(-9)(-2)(5) = 90$

28.  $\frac{-57}{0}$  Undefined

24.  $-4 \cdot 7 \cdot -2 = 56$

29.  $\frac{0}{2}$  0

25.  $(10)(5)(-2)(-5) = 500$

30.  $-110 \div 5 = -22$

26.  $-8 \cdot 3 \cdot -10 \cdot -2 = -480$

31.  $\frac{-25}{-\sqrt{25}}$  5

27.  $(5)(-3)(5)(7) = -525$

32.  $-49 \div -7 = 7$

Use the Distributive Property to simplify the following expressions:

$$33. \quad 5(-n+4) = -5n+20$$

$$38. \quad 7w(4w+9)+7(2w+3) = 28w^2+77w+21$$

$$34. \quad -100\left(y-\frac{1}{2}\right) = -100y+50$$

$$39. \quad 10(c+4)-5(c+4) = 5c+20$$

$$35. \quad 7r+5(r+4) = 12r+20$$

$$40. \quad 2y(5y+20)-2(y+21) = 10y^2+38y-42$$

$$36. \quad -(5t+7)-4 = -5t-11$$

$$41. \quad -5a(7a+7)+a(a+20) = -34a^2-15a$$

$$37. \quad 8(b+5)+2b = 10b+40$$

$$42. \quad z(4+3z)-5(7z+5) = 3z^2-31z-25$$

Combine Like Terms and Simplify.

$$43. \quad 4m+21m-30m = -5m$$

$$48. \quad 5n(n+1)+4n^2-n+5n = 9n^2+9n$$

$$44. \quad r+4r+15-5r = 15$$

$$49. \quad 52m-5m+40n-7m-10n = 40m+30n$$

$$45. \quad 21ab-(-28ab) = 49ab$$

$$50. \quad 20(4x)+5(4x)+x = 101x$$

$$46. \quad 31xy^2+9xy^2+7xy^2 = 47xy^2$$

$$51. \quad -10ab+3+(-9ab)-ab^2 = -ab^2-19ab+3$$

$$47. \quad t+47t+1-8-t = 47t-7$$

$$52. \quad 3r^2(5r+2)-r^2(5r+2)+1 = 10r^3+4r^2+1$$