

**Practice 1-6****Multiplying and Dividing Real Numbers****Simplify each expression.**

1.  $(-2)(8)$

2.  $(-6)(-9)$

3.  $(-3)^4$

4.  $-2^5$

5.  $(6)(-8)$

6.  $(-14)^2$

7.  $2(-4)(-6)$

8.  $-30 \div (-5)$

9.  $\frac{-52}{-13}$

10.  $(-8)(5)(-3)$

11.  $-7^2$

12.  $-3^5$

13.  $\frac{-68}{17}$

14.  $\frac{(-4)(-13)}{-26}$

15.  $\frac{225}{(-3)(-5)}$

**Evaluate each expression.**

16.  $x^3$  for  $x = -5$

17.  $s^2t \div 10$  for  $s = -2$  and  $t = 10$

18.  $-2m + 4n^2$  for  $m = -6$  and  $n = -5$

19.  $\frac{v}{w}$  for  $v = \frac{2}{5}$  and  $w = -\frac{1}{2}$

20.  $-cd^2$  for  $c = 2$  and  $d = -4$

21.  $(x + 4)^2$  for  $x = -11$

22.  $\left(\frac{a}{b}\right)^2 + b^3$  for  $a = 24$  and  $b = -6$

23.  $4p^2 + 7q^3$  for  $p = -3$  and  $q = -2$

24.  $(e + f)^4$  for  $e = -3$  and  $f = 7$

25.  $5f^2 - z^2$  for  $f = -1$  and  $z = -4$

**Simplify each expression.**

26.  $2^4 - 3^2 + 5^2$

27.  $(-8)^2 - 4^3$

28.  $32 \div (-7 + 5)^3$

29.  $\frac{3}{4} \div \left(-\frac{3}{7}\right)$

30.  $18 + 4^2 \div (-8)$

31.  $26 \div [4 - (-9)]$

32.  $4^3 - (2 - 5)^3$

33.  $-(-4)^3$

34.  $(-8)(-5)(-3)$

35.  $(-3)^2 - 4^2$

36.  $\frac{-45}{-15}$

37.  $(-2)^6$

38.  $\frac{-90}{6}$

39.  $\frac{-15}{(7 - 4)}$

40.  $\frac{195}{-13}$

**Evaluate each expression.**

41.  $(a + b)^2$  for  $a = 6$  and  $b = -8$

42.  $d^3 \div e$  for  $d = -6$  and  $e = -3$

43.  $(m + 5n)^3$  for  $m = 2$  and  $n = -1$

44.  $j^5 - 5k$  for  $j = -4$  and  $k = -1$

45.  $xy + z$  for  $x = -4$ ,  $y = 3$ , and  $z = -3$

46.  $4s \div (-3t)$  for  $s = -6$  and  $t = -2$

47.  $\frac{r^3}{s}$  for  $r = -6$  and  $s = -2$

48.  $\frac{-h^5}{-4}$  for  $h = 4$