

21)  $1 + 2 + -8$

$3 + -8 = \boxed{-5}$

22)  $-5 + +1 + 4$

$-4 + 4 = \boxed{0}$

23)  $-4 + -6 + 6$

$-10 + 6 = \boxed{-4}$

24)  $6 + 8 + +1$

$14 + 1 = \boxed{15}$

Write each number in scientific notation.

25) 690000

$6.9 \times 10^5$

26) 0.000842

$8.42 \times 10^{-4}$

27) 0.0000298

$2.98 \times 10^{-5}$

28) 0.0051

$5.1 \times 10^{-3}$

Write each number in standard notation.

29)  $8.1 \times 10^{-4}$

0.00081

30)  $9.07 \times 10^{-2}$

0.0907

31)  $2.53 \times 10^3$

2530

32)  $3 \times 10^4$

30,000

Simplify. Write each answer in scientific notation.

33)  $(5.4 \times 10^3)(4 \times 10^4)$

$5.4 * 4 = 21.6$

$3 + 4 = 7$

$\boxed{21.6 \times 10^7}$

34)  $(4.71 \times 10^0)(2.3 \times 10^3)$

$4.71 * 2.3 = 10.833$

$0 + 3 = 3$

$\boxed{10.833 \times 10^3}$

$$35) (4.5 \times 10^{-1})(7.9 \times 10^1)$$

$$4.5 * 7.9 = 35.55$$

$$-1 + 1 = 0$$

$$\boxed{35.55 * 10^0}$$

$$37) \frac{6.2 \times 10^{-6}}{3.2 \times 10^{-2}}$$

$$6.2 \div 3.2 = 1.94$$

$$-6 - -2 = -4$$

$$\boxed{1.94 * 10^{-4}}$$

$$39) \frac{8.1 \times 10^{-2}}{8.7 \times 10^{-4}}$$

$$8.1 \div 8.7 = .93$$

$$-2 - -4 = 2$$

$$\boxed{.93 * 10^2}$$

Evaluate each expression.

$$41) (14 + 5 + 17) \div 6 - 2$$

$$(19 + 17) \div 6 - 2$$

$$36 \div 6 - 2$$

$$6 - 2 = \boxed{4}$$

$$43) (6 + 10 - 4) \div 2 - 3$$

$$(16 - 4) \div 2 - 3$$

$$12 \div 2 - 3$$

$$6 - 3 = \boxed{3}$$

Evaluate each using the values given.

$$45) p + m + n - n + m; \text{ use } m = 4, n = 2, \text{ and } p = 3$$

$$3 + 4 + 2 - 2 + 4$$

$$7 + 2 - 2 + 4$$

$$9 - 2 + 4$$

$$7 + 4 = \boxed{11}$$

$$46) n^2 - mn - 1; \text{ use } m = 4, \text{ and } n = 6$$

$$6^2 - 4 * 6 - 1$$

$$36 - 4 * 6 - 1$$

$$36 - 24 - 1$$

$$12 - 1 = \boxed{11}$$

$$36) (7.1 \times 10^0)(3 \times 10^2)$$

$$7.1 * 3 = 21.3$$

$$0 + 2 = 2$$

$$\boxed{21.3 * 10^2}$$

$$38) \frac{6.1 \times 10^3}{1.7 \times 10^{-3}}$$

$$6.1 \div 1.7 = 3.59$$

$$3 - -3 = 6$$

$$\boxed{3.59 * 10^6}$$

$$40) \frac{3.62 \times 10^{-2}}{7 \times 10^2}$$

$$3.62 \div 7 = .52$$

$$-2 - 2 = -4$$

$$\boxed{.52 * 10^{-4}}$$

$$42) (2 - 1) \times 16 \div 4 + 6$$

$$1 * 16 \div 4 + 6$$

$$16 \div 4 + 6$$

$$4 + 6 = \boxed{10}$$

$$44) 2 + 5 - 1 - 2 - 3$$

$$7 - 1 - 2 - 3$$

$$6 - 2 - 3$$

$$4 - 3 = \boxed{1}$$

$$47) (z^2(z + y)) \div 3; \text{ use } y = 2, \text{ and } z = 3$$

$$(3^2(3 + 2)) \div 3$$

$$(9(3 + 2)) \div 3$$

$$-4 \quad (9(5)) \div 3$$

$$(45) \div 3 = \boxed{15}$$