

Determine the number of significant figures in each of the following numbers.

1) 5.432 \_\_\_\_\_

2) 40.319 \_\_\_\_\_

3) 146 \_\_\_\_\_

4) 3.285 \_\_\_\_\_

5) 0.189 \_\_\_\_\_

6) 429.3 \_\_\_\_\_

7) 2873.0 \_\_\_\_\_

8) 99.9 \_\_\_\_\_

9) 0.000235 \_\_\_\_\_

10) 144 \_\_\_\_\_

11) 2500 \_\_\_\_\_

12) 2500.0 \_\_\_\_\_

13)  $1.04 \times 10^{14}$  \_\_\_\_\_

14)  $3.58 \times 10^{-9}$  \_\_\_\_\_

15) 48.57193 \_\_\_\_\_

16) 8365.6 \_\_\_\_\_

17) 0.002300 \_\_\_\_\_

18)  $7.500 \times 10^8$  \_\_\_\_\_

19)  $3.92 \times 10^{-4}$  \_\_\_\_\_

20)  $1.000 \times 10^3$  \_\_\_\_\_

Perform the following operations and report your answer to the proper number of significant digits.

21)  $12 + 0.031 + 7.969 =$  \_\_\_\_\_

29)  $62.47 - 39.9 =$  \_\_\_\_\_

22)  $0.085 + 0.062 + 0.14 =$  \_\_\_\_\_

30)  $40.008 - 29.094 =$  \_\_\_\_\_

23)  $3.419 + 3.912 + 7.051 + 0.00013 =$  \_\_\_\_\_

31)  $29.49 + 83.46 + 107.05 + 26.618 =$  \_\_\_\_\_

24)  $30.5 + 16.82 + 41.07 + 85.219 =$  \_\_\_\_\_

32)  $0.0653 + 0.08538 + 0.07654 + 0.0432 =$  \_\_\_\_\_

25)  $143.0 + 289.25 + 68.45 + 6.00 =$  \_\_\_\_\_

33)  $1.8 \times 10^{-5} + 3.25 \times 10^{-4} + 4.6 \times 10^{-5} =$  \_\_\_\_\_

26)  $41.025 - 23.38 =$  \_\_\_\_\_

34)  $63.489 + 126.2 + 68.85 + 12.05 =$  \_\_\_\_\_

27)  $289 - 43.7 =$  \_\_\_\_\_

35)  $2.3 \times 10^2 + 4.62 \times 10^2 + 3.852 \times 10^2 =$  \_\_\_\_\_

28)  $145.63 - 28.9 =$  \_\_\_\_\_

Perform the following operations and report your answer to the proper number of significant digits.

36)  $2.89 \times 4.01 =$  \_\_\_\_\_

49)  $1.4 \times 10^{-8} \times 3.25 \times 10^{-6} =$  \_\_\_\_\_

37)  $17.3 \times 6.2 =$  \_\_\_\_\_

50)  $2.865 \times 10^4 \times 1.47 \times 10^3 =$  \_\_\_\_\_

38)  $3.08 \times 1.2 =$  \_\_\_\_\_

51)  $8.071 / 4.216 =$  \_\_\_\_\_

39)  $5.00 \times 7.3216 =$  \_\_\_\_\_

52)  $109.3758 / 5.813 =$  \_\_\_\_\_

40)  $20.8 \times 123.1 =$  \_\_\_\_\_

53)  $24789.4 / 43.5 =$  \_\_\_\_\_

41)  $5 \times 5 =$  \_\_\_\_\_

54)  $6.058 / 0.85 =$  \_\_\_\_\_

42)  $5.0 \times 5 =$  \_\_\_\_\_

55)  $4.819 / 9.852 =$  \_\_\_\_\_

43)  $5.0 \times 5.0 =$  \_\_\_\_\_

56)  $139.4482 / 68.75 =$  \_\_\_\_\_

44)  $4.8 \times 10^2 \times 2.101 \times 10^3 =$  \_\_\_\_\_

57)  $4.23 / 18.941 =$  \_\_\_\_\_

45)  $9.13 \times 10^{-4} \times 1.2 \times 10^{-3} =$  \_\_\_\_\_

58)  $85.621 / 8.05 =$  \_\_\_\_\_

46)  $4.218 \times 6.5 =$  \_\_\_\_\_

59)  $6.023 \times 10^{14} / 5.813 \times 10^{12} =$  \_\_\_\_\_

47)  $150.0 \times 4.00 =$  \_\_\_\_\_

60)  $1.142 \times 10^{-8} / 8.5 \times 10^{-4} =$  \_\_\_\_\_

48)  $282.2 \times 3.0 =$  \_\_\_\_\_