



## Basic Electronics Series

### Assignment Lesson One: Primary Math Concepts

1. Convert the following decimal Numbers to BCD

A. 54 = \_\_\_\_\_

B. 362 = \_\_\_\_\_

C. 999 = \_\_\_\_\_

2. Convert the following BCD to decimal Numbers

A. 0101 1000 = \_\_\_\_\_

B. 1001 0110 = \_\_\_\_\_

C. 0001 0100 = \_\_\_\_\_

3. Add the following values and express your answer in scientific notation:

A.  $22 \times 10^3 + 120 \times 10^4 =$  \_\_\_\_\_

B.  $100 \times 10^{-6} + 3.3 \times 10^{-5} =$  \_\_\_\_\_

C.  $15 \times 10^{-3} + 680 \times 10^{-6} =$  \_\_\_\_\_

4. Multiply the following values and express your answer in scientific notation:

A.  $(24 \times 10^2) \times (160 \times 10^{-3}) =$  \_\_\_\_\_

B.  $(250 \times 10^{-6}) \times (.003 \times 10^{+3}) =$  \_\_\_\_\_

C.  $(.18 \times 10^{-3}) \times (47 \times 10^{-5}) =$  \_\_\_\_\_

5. Express the following in Engineering notation:

A. 68000 = \_\_\_\_\_

B. .0047 = \_\_\_\_\_

C. .000022 = \_\_\_\_\_

6. Express the following hexadecimal numbers in decimal notation:

A. 0F = \_\_\_\_\_

B. 4A = \_\_\_\_\_

C. FFFF = \_\_\_\_\_

D. 1000 = \_\_\_\_\_