

## Basic Electronics and Troubleshooting Math Pre-Test

**Problem 1**      $A = B \times C$      which statement is mathematically equivalent?

- A)  $C = A / B$
- B)  $C = B \times A$
- C)  $B = C / A$
- D)  $B = C \times A$

**Problem 2**     Solve.      $\frac{A \times B}{A + B}$      where  $A = 20$  and  $B = 5$

- A) 100
- B) 25
- C) 4
- D) 50

**Problem 3**     What is the square root of 64?

- A) 32
- B) 8
- C) 4096
- D) 128

**Problem 4**     What is  $5^2 \times 2^2$ ?

- A) 29
- B) 14
- C) 100
- D) 50

**Problem 5**      $1 \times 10^6 =$

- A) 60
- B) 10
- C) 6,000,000
- D) 1,000,000

**Problem 6**     One one-thousandth =

- A) .01
- B) .001
- C) .0001
- D) .00001

**Problem 7**     Reduce  $25/75$  to the simplest fraction

- A)  $1/3$
- B)  $2.5/7.5$
- C)  $1/100$
- D)  $2/3$

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**Problem 8** The decimal numbering system is a:

- A) Base 8 system
- B) Base 10 system
- C) Base 2 system
- D) Base 16 system

**Problem 9** What is 10% of 1500?

- A) 15
- B) 1.5
- C) 150
- D) None of the above

**Problem 10** Which statement is correct about the numbers 3,6,9,12,15,18 and 21?

- A) They are all multiples of 3
- B) They can all be divided by 3
- C) Every other number is an odd number
- D) All of the above

**Problem 11** What is the decimal equivalent of  $\frac{1}{4}$ ?

- A) .10
- B) .05
- C) .40
- D) .25

**Problem 12** 100 minutes is equal to:

- A) 1 hour 40 minutes
- B) 1.4 hours
- C) 1.666 hours
- D) A and C