Mth 85 Prerequisite Skills Expected   NAME

To be successful in Mth 85 you should come into the course already familiar with the prerequisite material listed below. It is natural that you may need to review the prerequisite material. However, you will need to get up to speed very quickly on this material if you are to be successful.

After review, place a checkmark next to those skills you feel you understand and/or are proficient with. Place a question mark next to those outcomes which you feel your skills/understanding is questionable. Place an X next to those you have never seen or never understood.

To be successful in Mth 85 you should <u>already</u> have the following skills

Prerequisite Material

1. Know the basic vocabulary of mathematics at the pre-algebra level. e.g. radius, circumference, numerator, percent, etc.

2. Know the common abbreviations in mathematics at the pre-algebra level.   e.g. LCD, $\approx$, $\neq$, π, ft, rpm, etc.

3. Know place names/position. e.g. millions, hundreds, tens, tenths, thousandths, etc.

4. Know and be able to pply the standard rules of rounding.

5. Perform basic calculations ($+, -, \times, \div$) with real numbers, decimals and fractions.

6. Compute *roots and powers* (with calculator help) e.g $4^5, \sqrt{169}$

7. Use valid *order of operations* to perform extended calculations.

8. Evaluate expressions/formulas using *substitution*. e.g. $c = \sqrt{a^2 + b^2}$; a = 3, b = 4 $\rightarrow$ c = 5

9. Solve basic applications involving real numbers, decimals and fractions. e.g. Find mpg, cost/item, etc.

10. Switch between *percent $\leftrightarrow$ decimal $\leftrightarrow$ fraction*. e.g. 60% $\leftrightarrow$ 0.60 $\leftrightarrow$ 3/5

11. Perform basic percent calculations. e.g. 20% of 45 $\rightarrow$ 9, 13 out of 20 correct $\rightarrow$ 65%

12. Solve basic percent applications. e.g. Compute $-tax and net pay from gross pay & %-tax.

13. Know the basic units of US Standard Measure and be able to convert to alternate units. e.g. yds $\rightarrow$ ft

14. Know the basic units of metric measurement and be able to convert to alternate units. e.g. km $\rightarrow$ m

15. Solve direct proportions. e.g. 3/5 = x/10

16. Compute the area and perimeter of: circles, triangles, rectangles, trapezoids and parallelograms.

17. Compute the volumes of spheres, cylindrical shapes and pyramidal shapes.

18. Plot/read (x, y) coordinates on a graph.

What is your Major/Program at COCC?

Last Math Class Taken

What was it?	*When Was it?*	*How did you do?*	*Do you remember the material?*