

Sections 5.1 and 5.2

Math 103 Course Outline Unit II

Objective: Interpret scientific notation results when they occur on the calculator.

INSTRUCTOR NOTE

- ❖ The graphing calculator's notation for scientific notation is EE (2ND ,), but the calculator displays only one "E."

Example 1: Interpret 8.5 E-6.

Solution: $8.5 \text{ E-}6 = 8.5 \times 10^{-6} = 0.0000085.$

Example 2: Interpret 1.24 E 8.

Solution: $1.24 \text{ E}8 = 1.24 \times 10^8 = 124,000,000.$

INSTRUCTOR NOTE

You may choose to show students how to check computations using scientific notation.

Example: Find the quotient: $\frac{1.2 \times 10^2}{2 \times 10^{-1}}$

Solution: $\frac{1.2}{2} \times \frac{10^2}{10^{-1}} = 0.6 \times 10^3 = 6 \times 10^2 = 600$

Check:

