## Multiplying a Decimal by a Power of 10

Materials: calculators

1. Solve the following problems:

| $38.5 \times 10^{1}=$ | $38.5 \times 10^{2}=$ | $38.5 \times 10^{3}=$ |
| :--- | :--- | :--- |
| $.08 \times 10^{1}=$ | $.08 \times 10^{2}=$ | $.08 \times 10^{3}=$ |
| $.006 \times 10^{1}=$ | $.006 \times 10^{2}=$ | $.006 \times 10^{3}=$ |

2. Choose three other two or three-digit decimal numbers. Multiply each number by $10^{1}, 10^{2}$, and $10^{3}$.
3. Use a calculator to check your work.
4. What pattern do you notice in the placement of the decimal point when a decimal is multiplied by a power of 10? Explain.
