Multiplying a Decimal by a Power of 10

Materials: calculators

1. Solve the following problems:

38.5 x 10 ¹ =	38.5 x 10 ² =	38.5 x 10 ³ =
.08 x 10 ¹ =	.08 x 10 ² =	.08 x 10 ³ =
.006 x 10 ¹ =	.006 x 10 ² =	.006 x 10 ³ =

- 2. Choose three other two or three-digit decimal numbers. Multiply each number by 10¹, 10², and 10³.
- 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.