Lesson 1.4 Scientific Notation

Scientific notation is most often used as a concise way of writing very large and very small numbers. It is written as a number between 1 and 10 multiplied by a power of 10. Any number can be expressed in scientific notation.

$$1.503 = 1.503 \times 10^3$$

$$0.0376 = 3.76 \times 10^{-2}$$

$$85 = 8.5 \times 10$$

Translate numbers written in scientific notation into standard form by reading the exponent.

$$7.03 \times 10^5 = 703000$$

$$5.4 \times 10^{-4} = 0.00054$$

Move the decimal right 5 places.

Move the decimal left 4 places.

Write each number in scientific notation.

Write each number in standard form.

7.
$$2.6 \times 10^{-3} =$$

$$8.46 \times 10^5 =$$

8.
$$9.02 \times 10^4 =$$

$$5.15 \times 10^{-2} =$$

$$8.45 \times 10^3 =$$

9.
$$7.25 \times 10^{-4} =$$

$$1.06 \times 10^3 =$$

$$9.06 \times 10^{-5} =$$

10.
$$9.7 \times 10^{-3} =$$

$$3.02 \times 10^{4} =$$

$$3.02 \times 10^{4} =$$
 $1.56 \times 10^{4} =$