

Name _____

Date ANSWER KEY

Numbers in Scientific Notation

You can use scientific notation to write very large or very small numbers.

Here are some examples:

Standard Form	Scientific Notation
914,000,000	= 9.14×10^8
0.00065	= 6.5×10^{-4}



Write each number in scientific notation.

$$7,300,000 = \underline{7.3 \times 10^6}$$

$$92,500,000 = \underline{9.25 \times 10^7}$$

$$6,800,000,000 = \underline{6.8 \times 10^9}$$

$$0.000022 = \underline{2.2 \times 10^{-5}}$$

$$0.00000051 = \underline{5.1 \times 10^{-7}}$$

$$4,670,000,000 = \underline{4.67 \times 10^9}$$

$$308,000,000 = \underline{3.08 \times 10^8}$$

$$0.000000021 = \underline{2.1 \times 10^{-8}}$$

$$56,200,000,000 = \underline{5.62 \times 10^{10}}$$

$$0.0000000079 = \underline{7.9 \times 10^{-9}}$$

$$0.00000003 = \underline{3 \times 10^{-8}}$$

$$0.0000037 = \underline{3.7 \times 10^{-6}}$$

$$16,300,000,000 = \underline{1.63 \times 10^{10}}$$

$$8,010,000,000,000 = \underline{8.01 \times 10^{12}}$$

$$0.00000000824 = \underline{8.24 \times 10^{-9}}$$

$$0.000000000044 = \underline{4.4 \times 10^{-11}}$$

$$2,000,000,000,000 = \underline{2 \times 10^{12}}$$

$$0.000000000000009 = \underline{9 \times 10^{-15}}$$

Write each number in standard form.

$$4.7 \times 10^3 = \underline{4,700}$$

$$9.5 \times 10^6 = \underline{9,500,000}$$

$$5.2 \times 10^{-4} = \underline{0.00052}$$

$$3.17 \times 10^5 = \underline{317,000}$$

$$8 \times 10^{-6} = \underline{0.000008}$$

$$2.6 \times 10^{-5} = \underline{0.000026}$$

$$1.54 \times 10^7 = \underline{15,400,000}$$

$$4.08 \times 10^{-3} = \underline{0.00408}$$

$$3.9 \times 10^8 = \underline{390,000,000}$$

$$6.67 \times 10^{-7} = \underline{0.000000667}$$

$$8.5 \times 10^{-9} = \underline{0.0000000085}$$

$$2.03 \times 10^6 = \underline{2,030,000}$$

$$7.41 \times 10^{-6} = \underline{0.00000741}$$

$$9 \times 10^9 = \underline{9,000,000,000}$$

$$1.01 \times 10^{11} = \underline{101,000,000,000}$$

$$6.4 \times 10^{-11} = \underline{0.000000000064}$$

$$2.23 \times 10^{-8} = \underline{0.0000000223}$$

$$4.79 \times 10^{10} = \underline{47,900,000,000}$$