

Self-Check for Tutorial 1 Scientific Notation: Basics

1. Write the expression 270,000 in scientific notation.
2. Jupiter's diameter is 88,640 miles. How is this measurement expressed in scientific notation?
3. The power output of a nuclear reactor is 2.4×10^7 watts. What number expresses the same value in standard notation?
4. The diameter of the sun is 864,000 miles. How can this value be expressed in scientific notation?
5. According to the SI what is the standard unit of measure for time?
6. Write .0000000000986 in scientific notation.

Solutions to Self-Check for Tutorial 1 Scientific Notation: Basics

1. Write the expression 270,000 in scientific notation.

Move the decimal point 5 places to the left.

$$2.7 \times 10^5$$

3. The power output of a nuclear reactor is 2.4×10^7 watts. What number expresses the same value in standard notation?

Move the decimal point 7 places to the right.

$$24,000,000$$

5. According to the SI what is the standard unit of measure for time?

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2. Jupiter's diameter is 88,640 miles. How is this measurement expressed in scientific notation?

Move the decimal point 4 places to the left.

$$10^4$$

4. The diameter of the sun is 864,000 miles. How can this value be expressed in scientific notation?

Move the decimal point 5 places to the left.

$$8.64 \times 10^5$$

6. Write .00000000000986 in scientific notation.

Move the decimal point 12 places to the right.

$$9.86 \times 10^{-12}$$