

Skills Worksheet

Math Skills

Writing Scientific Notation

After you study each sample problem and solution, work out the practice problems on a separate sheet of paper. Write your answers in the spaces provided.

PROBLEM

A single railroad engine pulled 250 freight cars on the Erie Railroad from May 1914 until 1929. The mass pulled by the engine was 15,545,000 kg. Express this value for mass in scientific notation.

SOLUTION

Step 1: List the given value.

$$\text{Given: } \text{mass, } m = 15,545,000 \text{ kg}$$

Step 2: Write the form for scientific notation.

$$m = ? \times 10^? \text{ kg}$$

Step 3: Convert the known value into the form for scientific notation. Move the decimal point to the left until only one digit remains to the left of the decimal point. Count the number of places the decimal point was moved. To change 15,545,000 to 1.5545000, the decimal point is moved seven places to the left. The number of places the decimal point is moved is the correct power of 10. When the decimal point is moved to the left, the exponent is positive. The zeros at the end of the number can be dropped from the answer.

$$m = 1.5545 \times 10^7 \text{ kg}$$

PRACTICE

1. Scientists have estimated that the area of Earth covered by water is 70.98 percent, or 362,031,100 km². Express this value in scientific notation.

2. The brightest comet on record, the Great Comet of 1843, had a tail that trailed for 205,000,000 mi. Express this distance in scientific notation.

3. Mount Everest, an eastern Himalayan peak on the Tibet-Nepal border, was discovered to be the world's highest mountain in March 1856. The Survey Department of the Government of India computed its height to be 29,002 ft. Express this height in scientific notation.

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