

Name: _____

Date: _____ Score: _____

Scientific Notation - Word Problem

1. The Statue of Liberty is 1.5108×10^2 feet tall from the top of the pedestal. The pedestal is 1.54×10^2 feet tall from the foundation. Together, how tall is the Statue of Liberty from the foundation?

2. The mass of the moon is about 7.3×10^{22} kg. The mass of Earth is 5.9×10^{24} kg. The mass of Pluto is 1.3×10^{22} kg. Find the combined mass of the moon, Earth and Pluto. Write your answer in scientific notation.

3. In United States, the people use approximately 2,240,000,000 pounds of bread in a year. How can we write this number in scientific notation?

4. The diameter of Mars is 6.8×10^3 kilometers. The diameter of Earth is about 1.2763×10^4 km. Find how much greater is Earth's diameter than the diameter of Mars?

5. An airplane traveled at a speed of 5.7×10^2 miles per hour for 1.4×10^1 hours. How far did the plane travel?

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Answers

1. The Statue of Liberty is 1.5108×10^2 feet tall from the top of the pedestal. The pedestal is 1.54×10^2 feet tall from the foundation. Together, how tall is the Statue of Liberty from the foundation?

3.0508×10^2 feet

2. The mass of the moon is about 7.3×10^{22} kg. The mass of Earth is 5.9×10^{24} kg. The mass of Pluto is 1.3×10^{22} kg. Find the combined mass of the moon, Earth and Pluto. Write your answer in scientific notation.

5.986×10^{24}

3. In United States, the people use approximately 2,240,000,000 pounds of bread in a year. How can we write this number in scientific notation?

2.24×10^9 pounds

4. The diameter of Mars is 6.8×10^3 kilometers. The diameter of Earth is about 1.2763×10^4 km. Find how much greater is Earth's diameter than the diameter of Mars?

5.963×10^3 km

5. An airplane traveled at a speed of 5.7×10^2 miles per hour for 1.4×10^1 hours. How far did the plane travel?

7.98×10^3 miles