

Name _____ Period _____ Date _____

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Pre-Algebra: Scientific Notation Operations #3 (page 1)

COMPLETE WORK ON SEPARATE PIECE OF PAPER OR NO CREDIT. Write final answer on blank space. Fill in the blank to make the statement true.

1. 9×10^{10} is _____ times larger than 3×10^7
2. 4×10^{-12} is _____ times larger than 4×10^{-8}
3. In 2009, the population of the United States was estimated as 3.07×10^8 people. The population of Maryland was estimated as 5.7×10^6 . About how many times greater is the population of the U.S. than the population of Maryland?

Perform the indicated operations. Write answers in CORRECT scientific notation.

4. $(3.2 \times 10^5) + (4.9 \times 10^8)$ 4. _____
5. $(2.3 \times 10^8) - (2.12 \times 10^3)$ 5. _____
6. In 2009, the population of the California was estimated as 3.69×10^7 people. The population of Florida was estimated as 1.8×10^6 . What was the total for these two states?

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7. $(1.8 \times 10^9) \times (6.78 \times 10^{12})$ 7. _____

8. A newborn baby has about 26,000,000,000 cells. An adult has about 1.9×10^3 times as many cells as a newborn. About how many cells does an adult have?
Write your answer in scientific notation. 8. _____

9. $\frac{3.46 \times 10^{21}}{2 \times 10^9}$ 9. _____

10. Astronomers estimate that the diameter of the Andromeda galaxy is approximately 2.2×10^5 light-years. A light-year is the distance light travels in a vacuum in 1 year. One light-year is approximately 5.9×10^{12} miles. What is the diameter of the Andromeda galaxy in miles? Write your answer in scientific notation

10. _____

Answer in Calculator Scientific Notation.

11. $(4.1 \text{ E } 9) + (7.28 \text{ E } 8)$ 11. _____

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