

Name: Selected Answers Period: _____

Score: _____ / _____ %

HW 6-2 - Add & Subtract with Sci. Notation

Write the number in scientific notation.

1. 0.00002031

$$2.031 \times 10^{-5}$$

2. 43,680,000,000

3. 0.02009

$$2.009 \times 10^{-2}$$

4. 608,000,000

5. 0.1300000

$$1.3 \times 10^{-1}$$

6. 500,300,000,000

Evaluate each expression. Express the result in scientific notation.

7. $(9.5 \times 10^{11}) + (6.3 \times 10^9)$

$$9.563 \times 10^{11}$$

11. $(7.3 \times 10^5) + 2,400,000$

$$2.473 \times 10^7$$

8. $(1.03 \times 10^9) - (4.7 \times 10^7)$

12. $(8.64 \times 10^6) + (1.334 \times 10^{10})$

9. $(1.357 \times 10^9) + 590,000$

$$1.35759 \times 10^9$$

13. $(1.21 \times 10^5) - 9,500$

$$1.115 \times 10^5$$

10. $87,000 - (6.34 \times 10^1)$

14. $(7 \times 10^{-15}) - (4 \times 10^{-17})$

Evaluate each expression. Express the result in scientific notation.

15. $(7.2 \times 10^{-18}) + (1.82 \times 10^{-17})$

16. $(9 \times 10^{-21}) + (3.15 \times 10^{-22})$

$$2.54 \times 10^{-17}$$

17. The population of Washington is 6.9×10^6 people, Oregon is 3.9×10^6 people, and Idaho is 1.6×10^6 people. These three states make up the Pacific Northwest. What is the total population of the Pacific Northwest?

$$1.24 \times 10^7$$

18. The mass of Jupiter is 1.9×10^{27} kilograms, the mass of Earth is 5.97×10^{24} kilograms, and the mass of Venus is 4.87×10^{24} kilograms. What is the total mass of these three planets?