

Name: _____ Period: _____ Score: _____/_____ = _____% = _____

HW 6-3 - Multiply & Divide with Scientific Notation

Write the number in scientific notation.

1. 89,000

3. 78,900,000

2. 0.00002007

4. 0.000001

Evaluate each expression. Express the result in scientific notation.

5. $(3.9 \times 10^2)(2.3 \times 10^6)$

6. $(4.18 \times 10^{-4})(9 \times 10^{-4})$

7. $(9.75 \times 10^3)(8.4 \times 10^{-6})$

8. $\frac{9.45 \times 10^{10}}{1.5 \times 10^6}$

Evaluate each expression. Express the result in scientific notation.

9. $\frac{1.14 \times 10^6}{4.8 \times 10^{-6}}$

10. $\frac{9 \times 10^{-11}}{2.4 \times 10^8}$

Evaluate each expression. Express the result in scientific notation.

11. $(3.7 \times 10^{-2})(1.2 \times 10^3)$

12. $\frac{3.24 \times 10^{-4}}{8.1 \times 10^{-7}}$

13. Convert the following to scientific notation and identify the expression that does not belong.

14.28×10^9

$(3.4 \times 10^6)(4.2 \times 10^3)$

1.4×10^9

$(3.4)(4.2) \times 10^{(6+3)}$

Review:

Evaluate each expression. Express the result in scientific notation.

14. $(5.8 \times 10^5)(6.4 \times 10^2)$

15. $(3.92 \times 10^6)(2.2 \times 10^4)$

16. $\frac{2.952 \times 10^5}{3.6 \times 10^3}$

17. $\frac{2.052 \times 10^7}{5.4 \times 10^4}$

18. $(6.9 \times 10^7)(2.12 \times 10^5)$

19. $(1.78 \times 10^4) + (5.35 \times 10^3)$

20. $(8.4 \times 10^7) - (6.3 \times 10^6)$

21. $(9.62 \times 10^5) - (2.58 \times 10^3)$