

Scientific Notation Review

Name _____ Hr _____

If the number below is in scientific notation, write correct. If it is not, fix it.

1. 89.34×10^4

3. 0.3×10^{10}

2. 3.90×10^{-6}

4. 1×10^3

Convert the following numbers to scientific notation or standard form.

5. 0.000000345

8. 9.3×10^{-5}

6. 19,300,000

9. 3.2501×10^8

7. 0.00277

10. 1.76×10^{-4}

Convert the following numbers into standard notation and then into scientific notation.

Standard or Decimal Form

Scientific Notation

11. 1 billion

12. 98.2×10^3

13. 0.34×10^4

14. 4 million

15. 653×10^{-5}

Compare the following numbers. Use an inequality symbol ($<$ $>$ $=$).

16. 8×10^{-5} _____ 9.2×10^{-6}

18. 0.00024 _____ 2.4×10^3

17. 59.2×10^4 _____ 9.8×10^3

19. 7.12×10^8 _____ 8.49×10^8

20. Choose which would be the most **appropriate unit**, for the given number.

Width of a finger nail: 2.5×10^{-2} <u>Inches</u> or <u>Millimeters</u> ?	Distance from Florida to Michigan: 1.7×10^7 <u>Feet</u> or <u>Miles</u> ?
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Add, subtract, multiply, or divide the given values in Scientific Notation.

21. $(2 \times 10^3) + (5 \times 10^5)$	22. $(7 \times 10^3) + (8.6 \times 10^4)$	23. $(3 \times 10^4) + (14.5 \times 10^5)$
24. $(4 \times 10^8) - (9 \times 10^7)$	25. $(5 \times 10^3) - (8.9 \times 10^4)$	26. $(9 \times 10^2) - (5.54 \times 10^4)$
27. $(8 \times 10^6) (3 \times 10^5)$	28. $(5 \times 10^4) (1.9 \times 10^5)$	29. $(4.6 \times 10^2) (9 \times 10^5)$
30. $\frac{1 \times 10^{10}}{2 \times 10^3}$	31. $\frac{9 \times 10^4}{6 \times 10^5}$	32. $\frac{6.7 \times 10^2}{4 \times 10^5}$