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}

2. 3.90×10^{-6}

3. 0.3×10^{10}

4. 1×10^{3}

Convert the following numbers to scientific notation or standard form.

5. 0.000000345

6. 19,300,000

7. 0.00277

8. 9.3×10^{-5}

9. 3.2501×10^{8}

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}

17. 59.2×10^{4} ____ 9.8×10^{3}

18. 0.00024 ____ 2.4×10^{3}

19. 7.12×10^{8} ____ 8.49×10^{8}

20. Choose which would be the most **appropriate units**.

Width of a finger nail: 2.5×10^{-2} **Inches** or **Millimeters**?

Distance from Florida to Michigan: 1.7×10^{7} **Feet** or **Miles**?

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. $(5 \text{ x } 10^3) - (8.9 \text{ x } 10^4)$	26. $(9 \text{ x } 10^2) - (5.54 \text{ x } 10^4)$
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. $\frac{6.7 \times 10^2}{4 \times 10^5}$