

Algebra I
10.4 Warm-Up
Scientific Notation

NAME: _____
DATE: _____ HOUR: _____

For this assignment, put your calculator in SCIENTIFIC mode. Express ALL answers in scientific notation.

- | | |
|-------------------------|-----------------------------|
| 1. 4,570,000,000 _____ | 7. 5800 _____ |
| 2. 0.0000023 _____ | 8. 0.026 _____ |
| 3. 0.00458 _____ | 9. 35,000,000 _____ |
| 4. 62,000,000 _____ | 10. .000000072 _____ |
| 5. 70,500,000,000 _____ | 11. 2,070,000,000,000 _____ |
| 6. 0.0000875 _____ | 12. .00305 _____ |

- | | |
|--|---|
| 13. $(8 \times 10^4)(3 \times 10^3)$ _____ | 14. $\frac{6.5 \times 10^5}{1.3 \times 10^3}$ _____ |
| 15. $(4.3 \times 10^2)(5.2 \times 10^4)$ _____ | 16. $\frac{8.4 \times 10^6}{2.1 \times 10^2}$ _____ |

over

Perform each computation with a calculator.

- | | |
|--|---|
| 17. $(5.63 \text{ E } 03)(4.2 \text{ E } 04)$ _____ | 18. $\frac{7.5 \text{ E } 04}{2.5 \text{ E } 02}$ _____ |
| 19. $(4.25 \text{ E } 05)(6.32 \text{ E } 06)$ _____ | 20. $\frac{1.2 \text{ E } 05}{6 \text{ E } 02}$ _____ |
| 21. $(2 \times 10^4)(4 \times 10^{-5})$ _____ | 22. $(77 \times 10^4)(0.02 \times 10^3)$ _____ |
| 23. $250,000 \div 0.0005$ _____ | 24. $(0.00004)(20,000)$ _____ |

Perform the following computations. Write your answers in scientific notation.

- | | | |
|---|--|--|
| 25. $(4 \times 10^8)(2 \times 10^3)$
_____ | 26. $(3 \times 10^2)(3 \times 10^5)$
_____ | 27. $(5 \times 10^3)(2 \times 10^6)$
_____ |
| 28. $(7 \times 10^5)(4 \times 10^9)$
_____ | 29. $(5.6 \times 10^4) - (2.1 \times 10^4)$
_____ | 30. $(7.8 \times 10^{14}) + (3.7 \times 10^{14})$
_____ |