

## Exponents and Roots

Write on your own sheet of paper. You will not turn this worksheet in.

**Write each number in standard notation.**

- |                                   |                                 |                                   |                                    |
|-----------------------------------|---------------------------------|-----------------------------------|------------------------------------|
| 1. $1.76 \times 10^{-1}$<br>_____ | 2. $8.9 \times 10^3$<br>_____   | 3. $6.2 \times 10^{-2}$<br>_____  | 4. $1.01 \times 10^2$<br>_____     |
| 5. $5.8 \times 10^4$<br>_____     | 6. $8.1 \times 10^5$<br>_____   | 7. $3.8 \times 10^{-4}$<br>_____  | 8. $2.03 \times 10^{-3}$<br>_____  |
| 9. $5.0 \times 10^3$<br>_____     | 10. $3.12 \times 10^5$<br>_____ | 11. $7.6 \times 10^{-2}$<br>_____ | 12. $8.54 \times 10^{-5}$<br>_____ |

**Write each number in scientific notation.**

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|----------------------|------------------------|----------------------|
| 13. 376,000<br>_____ | 14. 9,580,000<br>_____ | 15. 650<br>_____     |
| 16. 1006<br>_____    | 17. 29<br>_____        | 18. 0.0061<br>_____  |
| 19. 0.0107<br>_____  | 20. 0.0002008<br>_____ | 21. 0.00053<br>_____ |
| 22. 250,800<br>_____ | 23. 0.000094<br>_____  | 24. 0.00086<br>_____ |

25. Earth is about 93,000,000 miles from the Sun. Write this number in scientific notation.

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26. The diameter of Earth is about  $1.276 \times 10^4$  kilometers. The diameter of Venus is about  $1.21 \times 10^4$  kilometers. Which planet has the greater diameter, Earth or Venus?

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