

Name _____

Period _____

Powers and Scientific Notation Review

You may use a calculator.

Do your best 😊

Complete the statement using < or >.

1. 5.9×10^6 _____ 5.23×10^6

2. 2.8×10^{96} _____ 5.9×10^{23}

Order the integers from least to greatest.

3. 4.9×10^3 1.2×10^6 8.3×10^2 3.5×10^6

1st _____ 2nd _____ 3rd _____ 4th _____

4. 1.1×10^3 1.2×10^3 1.01×10^3 1.11×10^3

1st _____ 2nd _____ 3rd _____ 4th _____**Add, subtract, multiply, or divide the integers.**

5. $1.6 \times 10^5 + 3.2 \times 10^6$

6. $8.1 \times 10^3 + 1.2 \times 10^3$

7. $-4 + -4$

8. $-7 - -5$

9. $-9 - 30$

10. $6 - 10$

11. $-12^* - 3$

12. $-5^* 8$

13.
$$\frac{121}{0}$$

Write the product as a power.

14. $8 * 8 * 8 * 8 * 8$

15. $3 * 3 * 3 * 3 * 3$

16. $2 * 2 * 2 * 2$

Copy and complete the statement using < or >.

17. 3^2 _____ 2^3

18. 7^8 _____ 8^7

19. 2^6 _____ 3^4

Write each power as a product and then evaluate the power.

20. 3^5

21. 9^3

22. 7^6

Write each of the following numbers in scientific notation.

23. 159,000,000,000

24. 720,000,000

Write each of the following numbers in standard form.

25. 7.8×10^6

26. 1.101×10^{13}

Write the number as a power.

27. 64

28. 9

Evaluate the following square roots.

29. $\sqrt{81}$

30. $\sqrt{144}$

31. The coldest recorded temperature in South Carolina is -28°C , and the coldest recorded temperature in North Carolina is -37°C . How much colder is the temperature in North Carolina than South Carolina?

32. Suppose the average population of a town has been decreasing by 115 people per year. How has the population changed over the last six years?

33. What is the correct order of operations?