Name:_____ Date:_____

Scientific Notation

1. _____ is a way to write very large and very small numbers by using powers of ten.
2. A number in scientific notation consists of _____ factors.
3. The first factor is a number greater than or equal to ____ and less than _____
4. The second factor is a power of _____
5. Example: 532,000 written in scientific notation is 5.32×10^5
6. To write a number in scientific notation, move the decimal point until the number is greater than or equal to 1 and less than 10.
7. _____ the number of places the decimal point moved.
8. Write the number as the product of the first number and ten to the _____ of decimal places moved.
9. If you move the decimal point to the left, the exponent will be _____
10. If you move the decimal point to the right, the exponent will be _____

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11. What is 7,800,000 written in scientific notation?

12. What is 567,000,000,000 written in scientific notation?

13. What is 0.00405 written in scientific notation?

14. What is 0.00000006711 written in scientific notation?

15. What is 9,901,000 written in scientific notation?

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Scientific Notation to Standard Form

1. You can change a number in scientific notation into _____ form

2. If the exponent in scientific notation is positive, move the decimal point to the _____.

3. If the exponent in scientific notation is negative, move the decimal point to the _____.

4. Add _____ if necessary.

5. What is 8.3×10^4 in standard form?

6. What is 9.47×10^{-5} in standard form?

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7. What is 1.103×10^{-10} in standard form?

8. What is 1×10^{6} in standard form?

9. What is 3.01×10^{-5} in standard form?

10. What is 4.2×10^{-4} in standard form?