

Writing in Scientific Notation



Procedure:

1. Rewrite the number as a product of a number between one and ten and some power of ten.

Example:

Write 36,000 in scientific notation.

Since 3.6 can be used as a number between one and ten, the decimal point must be moved to the right four places to get it back to its original position. Therefore, $36000 = 3.6 \times 10^4$.

Write in scientific notation.

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|----------------|---------------|---------------|
| 1. 232,000,000 | 2. 57,000,000 | 3. .00034 |
| 4. .000000619 | 5. 4,380,000 | 6. .000000051 |
| 7. 260,000 | 8. .00000757 | 9. 8,030,000 |

Write in standard form.

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|----------------------------|--------------------------|--------------------------|
| 1. 5.32×10^6 | 2. 7.5×10^{11} | 3. 3.46×10^{-7} |
| 4. 5.1528×10^{-4} | 5. 4.38×10^7 | 6. $.515 \times 10^{-5}$ |
| 7. 27.6×10^8 | 8. 6.17×10^{-8} | 9. $.834 \times 10^9$ |