

Complete the following practice problems to show what you know about scientific notation. Remember your answer is only in correct scientific notation if the coefficient is between 1 and 10.

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|------------|--------|-------------|---------|
| 1. 5400000 | 5.4E6 | 2. 0.000006 | 6E-6 |
| 3. 0.009 | 9E-3 | 4. 60 | 6E1 |
| 5. 2000000 | 2E6 | 6. 0.000216 | 2.16E-4 |
| 7. 48900 | 4.89E4 | 8. 0.0042 | 4.2E-3 |

Complete the following practice problems to show what you know about scientific notation. Convert each number written in scientific notation to regular notation.

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|-------------------------|------------|------------------------|------------|
| 1. $7.1 \cdot 10^3$ | 7,100 | 2. $1.5 \cdot 10^{-6}$ | 0.0000015 |
| 3. $2.66 \cdot 10^7$ | 26,600,000 | 4. $8.3 \cdot 10^4$ | 83,000 |
| 5. $1.71 \cdot 10^{-5}$ | 0.0000171 | 6. $3.6 \cdot 10^{-7}$ | 0.00000036 |

Practice a few examples on your own.

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|----------------------|--------|--------------------------|---------|
| 1. $21.2 \cdot 10^3$ | 2.12E4 | 4. $0.59 \cdot 10^5$ | 5.9E4 |
| 2. $11.5 \cdot 10^4$ | 1.15E5 | 5. $78 \cdot 10^{-3}$ | 7.8E-2 |
| 3. $0.46 \cdot 10^7$ | 4.6E6 | 6. $0.612 \cdot 10^{-4}$ | 6.12E-5 |

Practice a few on your own:

1. $8.94 \cdot 10^3 + 8 \cdot 10^4$

8.894E4

4. $6 \cdot 10^6 + 8.2 \cdot 10^8$

8.26E8

2. $7.46 \cdot 10^7 - 5.23 \cdot 10^6$

6.937E7

5. $4.2 \cdot 10^2 + 6.1 \cdot 10^1$

4.81E2

3. $8.76 \cdot 10^3 - 6.35 \cdot 10^4$

-5.57E4

6. $8.8 \cdot 10^7 - 7.7 \cdot 10^6$

8.03E7

1. Place the following numbers in order from least to greatest.

$7.8 \cdot 10^6$ $5.1 \cdot 10^4$ $1.25 \cdot 10^5$ $4.09 \cdot 10^4$

4.09E4 5.1E4 1.25E5 7.8E6

2. Order the following numbers from greatest to least.

$5 \cdot 10^3$ $3.2 \cdot 10^8$ $1.2 \cdot 10^8$ $7 \cdot 10^5$

3.2E8 1.2E8 7E5 5E3

3. Order the following numbers from greatest to least.

$5 \cdot 10^{-3}$ $3.2 \cdot 10^{-8}$ $1.2 \cdot 10^{-8}$ $7 \cdot 10^{-5}$

5E-3 7E-5 3.2E-8 1.2E-8

4. Order the following from least to greatest.

$6.8 \cdot 10^6$ $6 \cdot 10^6$ $6.6 \cdot 10^6$ $6.1 \cdot 10^6$

6E6 6.1E6 6.6E6 6.8E6

5. Order the following from least to greatest.

$6.8 \cdot 10^{-6}$ $6 \cdot 10^{-6}$ $6.6 \cdot 10^{-6}$ $6.1 \cdot 10^{-6}$

6.E-6 6.1E-6

6.6E-6

6.8E-6