

## 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.

- |    |             |    |            |    |            |
|----|-------------|----|------------|----|------------|
| 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.

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