

# EXPONENTS

**Directions:** Complete the table below. Use a calculator if necessary.

| Number | Base | Exponent | Expanded Notation                                | Standard Notation |
|--------|------|----------|--|-------------------|
| $2^3$  | 2    |          | $2 \times 2 \times 2$                            | 8                 |
| $3^2$  |      | 2        |  | 9                 |
| $5^4$  |      |          | $5 \times 5 \times 5 \times 5$                   |                   |
|        | 6    | 2        |  |                   |
|        | 8    |          | $8 \times 8 \times 8$                            |                   |
|        |      |          | $9 \times 9 \times 9 \times 9 \times 9 \times 9$ |                   |
| $10^3$ |      |          |  |                   |
|        | 7    |          |  | 49                |
|        | 2    |          |  | 16                |
|        |      | 3        |  | 27                |

## ANSWER KEY

# EXPONENTS

*Directions: Complete the table below. Use a calculator if necessary.*

| Number                  | Base      | Exponent | Expanded Notation                                | Standard Notation |
|-------------------------|-----------|----------|--|-------------------|
| $2^3$                   | 2         | <b>3</b> | $2 \times 2 \times 2$                            | 8                 |
| $3^2$                   | <b>3</b>  | 2        | <b><math>3 \times 3</math></b>                   | 9                 |
| $5^4$                   | <b>5</b>  | <b>4</b> | $5 \times 5 \times 5 \times 5$                   | <b>625</b>        |
| <b><math>6^2</math></b> | 6         | 2        | <b><math>6 \times 6</math></b>                   | <b>36</b>         |
| <b><math>8^3</math></b> | 8         | 3        | $8 \times 8 \times 8$                            | <b>512</b>        |
| <b><math>9^6</math></b> | <b>9</b>  | <b>6</b> | $9 \times 9 \times 9 \times 9 \times 9 \times 9$ | <b>531,441</b>    |
| $10^3$                  | <b>10</b> | <b>3</b> | <b><math>10 \times 10 \times 10</math></b>       | <b>1,000</b>      |
| <b><math>7^2</math></b> | 7         | <b>2</b> | <b><math>7 \times 7</math></b>                   | 49                |
| <b><math>2^4</math></b> | 2         | <b>4</b> | <b><math>2 \times 2 \times 2 \times 2</math></b> | 16                |
| <b><math>3^3</math></b> | <b>3</b>  | 3        | <b><math>3 \times 3 \times 3</math></b>          | 27                |