

Name \_\_\_\_\_



## Power Steps

**Directions:** Simplify each expression. Use two or more laws of exponents in the correct order. Show your work if needed.

|                                     |  |
|-------------------------------------|--|
| 1) $(2^3)^2 \times 2^4$             |  |
| 2) $(5^6 \div 5^2) \times 5^3$      |  |
| 3) $(3^2 \times 3^4) \div 3^3$      |  |
| 4) $(7^2)^3 \div 7^4$               |  |
| 5) $(4 \times 6)^2 \times 4^3$      |  |
| 6) $(18 \div 3)^2 \times 3^2$       |  |
| 7) $(x^3)^2 \times x^5$             |  |
| 8) $(y^8 \div y^3) \div y^2$        |  |
| 9) $(m^2n^3)^2 \times m^3$          |  |
| 10) $(a^5b^2) \div (a^2b) \times a$ |  |
| 11) $(2p^2q)^3 \div p^2$            |  |
| 12) $((r^2)^3 \times r^4) \div r^5$ |  |