

## Exponent Law Worksheet

Using exponent laws, reduce the following expressions to one exponent.

1.  $4^6 \times 4^{12}$

2.  $(9^{12})^7$

3.  $(4 \times 7)^3$

Write the following as a single power and then evaluate the expression.

4.  $2^5 \times 2^7$

5.  $3(mn)^4$  where  $m = 6$  and  $n = 5$

6.  $8(3^5)^2$

Evaluate the following powers, then determine which expression in each set has a lesser value.

7.  $2(2^2)^3$

or

$3(2^3)^2$

8.  $6^3 \times 6^4$

or

$3^5 \times 3^6$

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