Multiplying Exponents by Exponents

Name: _____ Score: _____

Multiply the following exponents.

$11^{2} \times 11^{3} =$	$10^{3} \times 4^{0} =$	$10^{1} \times 4^{2} =$
$5^{2} \times 4^{2} =$	$2^{3} \times 4^{3} =$	$5^{2} \times 3^{4} =$
$4^{0} \times 3^{2} =$	$1^{9} \times 2^{2} =$	$8^{2} \times 3^{2} =$
$10^{2} \times 10^{2} =$	$3^{3} \times 3^{2} =$	$5^{2} \times 7^{2} =$
$3^{4} \times 3^{4} =$	$1^{4} \times 1^{3} =$	$3^{3} \times 9^{1} =$
$5^{3} \times 2^{2} =$	$4^{2} \times 3^{3} =$	$5^{2} \times 3^{3} =$
$8^{3} \times 2^{6} =$	$7^{2} \times 3^{3} =$	$2^{1} \times 9^{3} =$

Answers

Multiply the following exponents.

$11^2 \times 11^3 =$

161,051

$10^3 \times 4^0 =$

1,000

$10^1 \times 4^2 =$

160

$5^2 \times 4^2 =$

400

$2^3 \times 4^3 =$

512

$5^2 \times 3^4 =$

2,025

$4^0 \times 3^2 =$

9

$1^9 \times 2^2 =$

4

$8^2 \times 3^2 =$

576

$10^2 \times 10^2 =$

10,000

$3^3 \times 3^2 =$

243

$5^2 \times 7^2 =$

1,225

$3^4 \times 3^4 =$

6,561

$1^4 \times 1^3 =$

1

$3^3 \times 9^1 =$

243

$5^3 \times 2^2 =$

500

$4^2 \times 3^3 =$

432

$5^2 \times 3^3 =$

675

$8^3 \times 2^6 =$

32,768

$7^2 \times 3^3 =$

1,323

$2^1 \times 9^3 =$

1,458