

Introduction to Exponents: Exponents Make Numbers More Powerful

It's no surprise that every time you multiply a number by another number, its value increases.

$2 \times 2 \times 2$ or 2^3 is definitely bigger and more powerful than 2.

How can you write 2^3 in words?

Option 1: *Two to the third power*

Option 2: *Two to the power of three*

ANSWERS

Let's Practice Using These Terms

Write the following exponent expressions in words. You may choose either option above to write your answer.

1. 4^8 four to the eighth power OR four to the power of eight

2. 9^4 nine to the fourth power OR nine to the power of four

3. 11^{20} eleven to the twentieth power OR eleven to the power of twenty

4. 3^8 three to the eighth power OR three to the power of eight

Write each problem in exponent form.

1. Thirty to the power of ten 30^{10}

2. Eighteen to the power of fifty-five 18^{55}

3. One hundred to the power of three 100^3

4. Seventeen to the power of sixteen 17^{16}

Find the value for each problem.

1. Twelve to the power of two 144

2. Three to the third power 27

3. Four to the power of six 4,096

4. Four to the power of four 256