

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*

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 _____

2. 9^4 _____

3. 11^{20} _____

4. 3^8 _____

Write each problem in exponent form.

1. Thirty to the power of ten _____

2. Eighteen to the power of fifty-five _____

3. One hundred to the power of three _____

4. Seventeen to the power of sixteen _____

Find the value for each problem.

1. Twelve to the power of two _____

2. Three to the third power _____

3. Four to the power of six _____

4. Four to the power of four _____