

## Introduction to Exponents: Understanding the Key Terms

When you multiply the same number over and over, you can write the problem using an exponent. Take a closer look at the terms we use when talking about exponents.

$2^3 = 2 \times 2 \times 2 = 8$

<p><b>Base:</b> the factor that is repeatedly multiplied</p>	<p><b>Exponent:</b> tells how many times the base is used as a factor</p>	<p><b>Expanded form:</b> uses the base and exponent to write out the repeated multiplication</p>	<p><b>Value:</b> the result of your calculation, or your answer</p>
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Let's practice! Use what you learned to fill in the blanks.

<div style="text-align: center; font-size: 2em; font-weight: bold; margin-bottom: 20px;"><math>4^2</math></div> <p>Base number: _____ Exponent: _____</p> <p>Expanded form: _____</p> <p>Value: _____</p>	<div style="text-align: center; font-size: 2em; font-weight: bold; margin-bottom: 20px;"><math>5^3</math></div> <p>Base number: _____ Exponent: _____</p> <p>Expanded form: _____</p> <p>Value: _____</p>
<div style="text-align: center; font-size: 2em; font-weight: bold; margin-bottom: 20px;"><math>10^4</math></div> <p>Base number: _____ Exponent: _____</p> <p>Expanded form: _____</p> <p>Value: _____</p>	<div style="text-align: center; font-size: 2em; font-weight: bold; margin-bottom: 20px;"><math>2^5</math></div> <p>Base number: _____ Exponent: _____</p> <p>Expanded form: _____</p> <p>Value: _____</p>
<div style="text-align: center; font-size: 2em; font-weight: bold; margin-bottom: 20px;"><math>6^3</math></div> <p>Base number: _____ Exponent: _____</p> <p>Expanded form: _____</p> <p>Value: _____</p>	<div style="text-align: center; font-size: 2em; font-weight: bold; margin-bottom: 20px;"><math>3^4</math></div> <p>Base number: _____ Exponent: _____</p> <p>Expanded form: _____</p> <p>Value: _____</p>