

## Exponents and Roots

### Learning Goal

To prepare the student to manipulate exponents and roots as needed for second semester chemistry.

A power is a mathematical notation for repeated multiplication of the number by itself. A power is written with an exponent placed after a base number.

### Examples

Four to the third power is so written  $4^3$

and  $4^3$  means  $4 \times 4 \times 4 = 64$

Likewise, 3 squared is  $3^2 = 3 \times 3 = 9$ .

A root is used to reverse a power.

The cubed root of 64, written  $\sqrt[3]{64}$ , is 4.

The square root of 25, written  $\sqrt{25}$ , is 5.

You may recall that a root is used to mathematically reverse a power. However, a root can also be considered as a fractional exponent, which is why it can reverse a power.

This means that

$$64^{1/3} = \sqrt[3]{64} = 4$$

or

$$25^{1/2} = \sqrt{25} = 5$$

Type this into your calculator using the  $x^y$  key and entering 0.3 for  $1/3$  for  $\sqrt[3]{}$ . You will see that  $25^{1/3} = 5$ .

Chemistry problems, such as those that describe reaction rates and equilibria, involve the chemical formulas, but involve exponents and roots within expressions.

In your chemistry course, you will learn that the expression to describe the equilibrium constant ( $K_c$ ) for the reaction



is

### Part 2

Try the following examples. Remember to use the keys I just showed you.

Save for a:

Choose the correct answer.

How do you solve?

1. Use the following example to solve a similar problem with exponents and roots.

2. Simplify the expression.

3. Complete previous item(s).

4. Complete previous item(s).

5. Complete previous item(s).

☐ 2.0

☐  $2.0 \times 10^{-2}$

☐  $2.0 \times 10^{-4}$

☐ I don't know. I am unable to obtain any of the answers but I do not want to give up.

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**Roman Wölfel**



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
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

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
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