Notes for Section 1.3 – Powers and Square Roots (Grade 7)

3^5

3 = base
5 = power

means 3 · 3 · 3 · 3 · 3

4^2 = 4 squared

4^3 = 4 cubed

Square Roots

*Symbol for square root is √ (also called a radical sign)

*√49 – this can be read "the square root of 49" or "radical 49." Means what # times itself gives you the number under the radical sign. In this case 7.

*The <u>opposite </u>of taking the square root of a number is <u>squaring </u>the number (raising it to the second power).
    √49 = 7 because 7^2 = 49

*<u>Cubed root</u> – what # times itself times itself a 3rd time gives you the number under the radical sign.

*The <u>opposite</u> of taking the cubed root of a number is <u>cubing</u> the number (raising it to the third power.)