



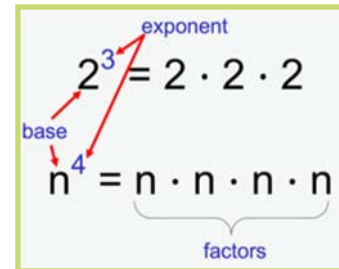
Dear Eighth Grade Families,

In Unit 1, students will work on the following eighth grade Common Core standards in the Expressions and Equations (EE) domains.

8.EE.1	Know and apply the properties of integer exponents to generate equivalent numerical expressions. For example, $3^2 \times 3^{-5} = 3^{-3} = 1/3^3 = 1/27$.
8.EE.2	Use square root and cube root symbols to represent solutions to equations of the form $x^2 = p$ and $x^3 = p$, where p is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that $\sqrt{2}$ is irrational.

Unit 1 Concepts:

- Properties of Exponents
- Squared Equations
- Cubic Equations
- Zero and Negative Exponents



Unit 1 Vocabulary:

- Base & Exponent
- Exponential form
- Power
- Factor
- Cube & cube root
- Perfect cube
- Reciprocal
- Squared numbers
- Square root
- Rational solution
- Increase exponentially

Ask questions like these to help your child as a productive mathematical thinker:

- What do the numbers represent?
- How can you tell if your answer makes sense?
- How can you prove this?
- What information do you need? What information do you need?
- How would describe this process?

Number	Squared	Cubed
5	25	125
6	36	216
7	49	343
8	64	512
9	81	729
10	100	1000
11	121	1331
12	144	1728
13	169	2197
14	196	2744
15	225	3375

Need a review? Check out our lesson videos on-line!

swunmath.com/student-videos

If you don't know the class's special name, ask your child's teacher.

We encourage you to talk with your child daily about what was learned in math class.
Thank you for your support!