Lesson 8-2 → Simplifying Perfect Cubes

$5 \times 5 = 25$

$\sqrt{25} = 5$

but wait!

$(-5) \times (-5) = 25$

so really....

$\sqrt{25} = 5$ and -5

But in 8th grade, people usually just say $\sqrt{25} = 5$ which is standard until high school

Now on to cube roots....

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

$\sqrt[3]{8} = 2$

$(-2) \times (-2) \times (-2) = (-2)^3 = -8$

$\sqrt[3]{-8} = -2$

so.... $\sqrt{25} = 5$ or -5

$\sqrt[3]{8} = 2$ only

$\sqrt[3]{-8} = -2$ only

$\sqrt{-25}$ does not exist until Algebra II