## Vocabulary \& Notation

There is no more important factor that affects student achievement than vocabulary and notation. Teach it explicitly!

## Mathematical Synonyms

Solve the equation
Find the roots
Find the zeros
Find the solution set
Find the values of the variable that makes the open sentence true

## Double meanings

Operation; surgery or add, sub, mult or divide
Mean; not nice or measure of central tendency
Median;
Total;
Product;
Volume;
Root;
island in road or measure of central tendency
breakfast cereal or answer to add problem
something for sale or answer in mult problem
turn up the sound or measure of capacity
part of a plant or an answer in alg

## Notation

Multiplicative Inverse: $\forall x \in R, \exists!x / x \cdot \frac{1}{x}=1$
For all x 's that belong to the Real Numbers, there exists a unique x such that $\mathrm{x} .1 / \mathrm{x}=1$

Multiplication Property - Exponents: $a^{m} a^{n}=a^{m+n}$
When you multiply exponentials with the same base, you add the exponents.

