|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Multiplying Radicals**  1. Multiply Coefficients  2. Multiply Radicands  3. Simplify |  |  |  |  |
| **Rationalizing Radicals**  1. Multiply Top and Bottom by the radicand on the bottom  2. Multiply  3. Simplify |  |  | **Adding/Subtracting Radicals**  1. Look to Simplify  2. Combine Coefficients of Like Radicals |  |
|  | **Simplifying Radicals**  1. Determine a perfect square  2. Perfect Things (square roots) on the outside; imperfect things on the inside |  |  |  |
| **Multiply Polynomials**  1. Distribute 1st term  2. Distribute 2nd term  3. Combine like terms to simplify |  |  |  | Determine the volume of a cube with length (2x – 3), width  (x +4), and height (x). |
| **Adding Polynomials**  1. Combine Like Terms |  | **Subtracting Polynomials**  1. Distribute the negative  2. Combing like terms |  | Determine the perimeter of a rectangle with length (2x – 3) and width (x+4). |
| **Number System**  Real vs Irrational |  |  |  |  |
| **Translating Expressions** | Write an expression for the “difference of a square of a number and 7” | Write an expression representing the cost of purchasing a HHS shirt costing ***x*** dollars, and having a discount of 15% off. | **Parts of an expression**  1. Coefficients  2. Terms  3. Constants |  |
| **Unit Conversion**  1. Start with Given  2. Need Diagonal Units  3. Multiply Top and Bottom  4. Divide to Simplify | 30,000 feet to centimeters | 40 oz to kg | 45 mph to feet per sec | YOU GOT THIS  ☺ |