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| **Homework 4 Nth Roots and Rational Exponents** | **Unit 1** |
| Parts of a Radical *If there’s no number at the root, then it’s a 2.* |
| Simplify RadicalsRoot is also called an index.* Prime Factor
* Circle groups of the root and bring them out
* If you bring out more than one, multiply
 |
| Simplify |
| 1.
 | 1.
 | 1.
 | 1.
 |
| Rewriting Radicals to have a Rational Exponent |
| Rewrite the following to have a rational exponent |
| 1.
 | 1.
 | 1.
 | 1.
 | 1.
 |
| Rewriting Rational Exponents to Radicals |
| Rewrite the following without a rational exponent (don’t evaluate). |
| 1.
 | 1.
 | 1.
 |
| Rewrite the following; then EVALUTATE |
| 1.
 | 1.
 | 1.
 | 1.
 | 1.
 |
| Solve. |
| 1. A cube has a volume of 343 in3. Find the length of an edge of the cube.
 | 1. The volume of a basketball is approximately 448.9 in3. Find the radius to the nearest tenth.
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