

5	(AM)	Advance	d Mastery	/ 100%
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- 4 (M) Mastery 93%
- 3 (VM) Vital Mastery 82%
- 2 (FM) Foundational Mastery 70%
- 1 (NYM) Not Yet Mastered 45%
- 0 (NA) No Attempt 0%

Name: _	
Per:	Date:

Pre-Assessment Pre-Assessment								
IM2 – 1.1 (A – V1 Pre) Rational Exponents & Radicals								
Standards & Skill Mastery								
Student Self-Score Skills Assessed / Goals			Teacher Score					
<u> </u>		ational exponents and their parts, as well as nequivalent expression in radical form.						
Pre-Assessment Pla	n							
Check all that apply. To study for this assessment, I will independently, rework this pre-assessment. complete all of my practice. watch tutorials online. study my notes until I understand them. work through practice problems & recheck answers.		To maintain or improve my mastery, I will study by						
Key Terms, Formula	ıs, & Notes							
$\underline{\textit{Equivalent Expressions}} \equiv \text{ expressions with equal values}$ $\underline{\textit{Rational Exponent}} \equiv \text{ an exponent that is a rational (fractional) number}$								
$\underline{\textit{Roots}} \equiv \text{The root of a number x is another number, which when multiplied by itself a given number of times, equals x}$								

Directions - (N.RN.1) Given the following expressions, expand the base, simplify the expression, and explain the simplification.

1.
$$32^{\frac{8}{5}} = ($$

$$\frac{8}{5} =$$

Explanation: The simplified expression is ______

2.
$$625^{\frac{1}{4}} = ($$

$$\frac{1}{4} =$$

Explanation: The simplified expression is ______

3.
$$343^{\frac{2}{3}} = ($$

$$)^{\frac{2}{3}} =$$

Explanation: The simplified expression is ______

Directions - (N.RN.1) Explain why the two expressions are equivalent, showing the steps for simplification.

4.
$$\sqrt[7]{128^2} = (\sqrt[7]{128})^2$$

5.
$$\sqrt{64^3} = (\sqrt{64})^3$$