Name _____

6-1 Mathematical Literacy and Vocabulary

Rational Exponents and Properties of Exponents

Concept List

radical form	**product of powers**	**quotient of powers**
exponential form	**rational exponent**	**power of a power**
power of a product		

Choose the concept from the list that best represents the item in each box.

1. $a^{\frac{m}{n}}$	**2.** $\sqrt[n]{a^m}$
3. $(a^m)^n = a^{mn}$	**4.** $\frac{a^m}{a^n} = a^{m-n}$
5. $a^m a^n = a^{m+n}$	**6.** $(ab)^m = a^m b^m$
7. $a^{\frac{m}{n}} = \sqrt[n]{a^m} = (\sqrt[n]{a})^m$	

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Choose the concept from the list that best represents the item in each box.

1. $a^{\frac{m}{n}}$ exponential form	**2.** $\sqrt[n]{a^m}$ radical form
3. $(a^m)^n = a^{mn}$ power of a power	**4.** $\frac{a^m}{a^n} = a^{m-n}$ quotient of powers
5. $a^m a^n = a^{m+n}$ product of powers	**6.** $(ab)^m = a^m b^m$ power of a product
7. $a^{\frac{m}{n}} = \sqrt[n]{a^m} = (\sqrt[n]{a})^m$ rational exponent	