TOPIC: RATIONAL EXPONENTS

- You can re-write radical expressions as terms with exponents that are _____.

Radicals	Rational Exponents
$\left(\sqrt{5}\right)^2$	$\left(5^{\frac{1}{2}}\right)^2 = 5^{\left(\frac{1}{2}\cdot 2\right)} =$

$\sqrt{5}$ ___ $5^{\frac{1}{2}}$

$\sqrt[n]{a^m} = a^{\frac{m}{n}}$

_____

over

_____

EXPONENT RULES

$(a^m)^n = a^{m\cdot n}$

EXAMPLE: Rewrite radicals as exponents or exponents as radicals.

(A) $13^{\frac{1}{3}}$

(B) $\sqrt{x}$

(C) $\sqrt[5]{y^2}$