

August 22, 2018
 * Quiz #1 - Monday

Aug 22-9:55 AM

Meaning of an Exponent
 $a^m = \underbrace{a \cdot a \cdot a \cdot \dots \cdot a}_n$
 ↑ Base n factors of the Base

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① $x^3 \cdot x^2 = x \cdot x \cdot x \cdot x \cdot x = x^5$
 same base
 $x^{3+2=5} = x^5$

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② $(x^3)^2 = x^3 \cdot x^3$
 $= x \cdot x \cdot x \cdot x \cdot x \cdot x$
 $= x^6$
 $(x^3)^{2=6} = x^6$

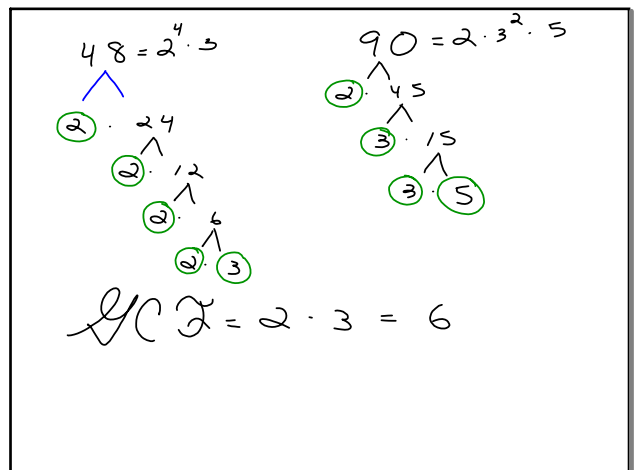
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③ $\frac{x^3}{x^2} = \frac{x \cdot x \cdot x}{x \cdot x \cdot 1} = \frac{x}{1} = x^1$
 $x^{3-2=1} = x^1 = x$

④ $\frac{x^2}{x^3} = \frac{x \cdot x \cdot 1}{x \cdot x \cdot x} = \frac{1}{x}$
 $x^{2-3=-1} = x^{-1}$ Fraction

⑤ $2^{-8} = \frac{1}{2^8} = \frac{1}{256}$
 ↑ Base

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