


MasterMath

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Number Sense
EXONENTS



EXONENTS

Base $\rightarrow 3^2 \leftarrow$ Exponent

“3 to the 2nd power”
or “3 squared”




EXONENTS

$3^2 = 3 * 3 = 9$

$3^3 = 3 * 3 * 3 = 27$

$3^5 = 3 * 3 * 3 * 3 * 3$
 $= 243$



EXPONENTS

$$(-4)^2 = (-4) * (-4) = 16$$

$$(-4)^3 = (-4) * (-4) * (-4) \\ = -64$$



EXPONENTS

$$125 = 5 * 5 * 5 = 5^3$$

$$54 \quad + \text{ Prime Numbers: 2, 3, 5, 7, 11, \dots}$$

$$54 \div 2 = 27$$

$$27 \div 3 = 9$$

$$9 \div 3 = 3$$

$$54 = 2 * 3 * 3 * 3 = 2 * 3^3$$



EXPONENTS

$$x^2 = x * x$$

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

$$x^3 = 1 * x * x * x$$

$$x^2 = 1 * x * x$$

$$x^0 = 1$$

$$x^1 = 1 * x$$

$$x^0 = 1$$



EXPONENTS

$$(1/4)^3 =$$

You Try 

EXPONENTS

$$(1/4)^3 = \frac{1}{4} * \frac{1}{4} * \frac{1}{4} = \frac{1 * 1 * 1}{4 * 4 * 4} = \frac{1}{64}$$

$$5 + 4 * 3^2 =$$

You Try 

EXPONENTS

$$5 + 4 * 3^2 = 5 + 4 * 9 =$$

$$5 + 36 = 41$$

$$6^{-2} =$$

You Try 

EXONENTS

$$6^{-2} = \frac{1}{6^2} = \frac{1}{36}$$

You Try 

EXONENTS

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your skill. Then see how much you
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