

				₩
<u>\$100</u>	<u>\$100</u>	<u>\$100</u>	<u>\$100</u>	<u>\$100</u>
<u>\$200</u>	<u>\$200</u>	<u>\$200</u>	<u>\$200</u>	<u>\$200</u>
<u>\$300</u>	<u>\$300</u>	<u>\$300</u>	<u>\$300</u>	<u>\$300</u>
<u>\$400</u>	<u>\$400</u>	<u>\$400</u>	<u>\$400</u>	<u>\$400</u>
<u>\$500</u>	<u>\$500</u>	<u>\$500</u>	<u>\$500</u>	<u>\$500</u>

Exponents: Negative and Zero

Exponents: Multiplication

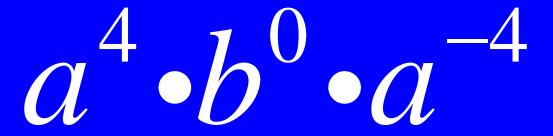
Exponents: Division

Scientific Notation

Exponential Functions

Exponents: Neg. and 0	Exponents: Multiplication	Exponents: Division	Scientific Notation	Exponential Functions
<u>\$100</u>	<u>\$100</u>	<u>\$100</u>	<u>\$100</u>	<u>\$100</u>
<u>\$200</u>	<u>\$200</u>	<u>\$200</u>	<u>\$200</u>	<u>\$200</u>
<u>\$300</u>	<u>\$300</u>	<u>\$300</u>	<u>\$300</u>	<u>\$300</u>
<u>\$400</u>	<u>\$400</u>	<u>\$400</u>	<u>\$400</u>	<u>\$400</u>
<u>\$500</u>	<u>\$500</u>	<u>\$500</u>	<u>\$500</u>	<u>\$500</u>











 $g^{-3}d^4 \bullet d^{-8}$







 $4xy^{-3}z^{6}$ $16a^{-4}b$







$$h^{-3}v^6 - 4h^2v^{-3}$$







$$(4c^{-4}d^9)^3 \cdot c^{12}$$







 $3x^{12} \cdot 4x^6$







 $-4k^{3} \cdot 6k^{9} \cdot -5k^{-4}$





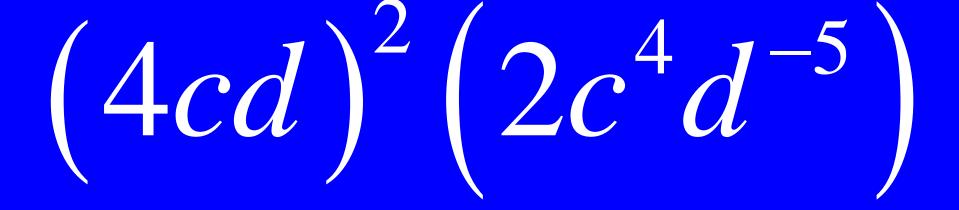


$$\left(-3y^3z^5\right)^2$$















$$(-2x) \cdot (4y) \cdot (-3x^4y^2)^3$$







14g⁵
10g²





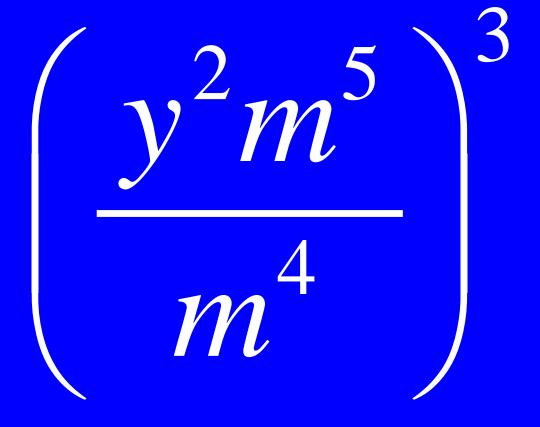


 a^9b^5c $a^5b^{12}c^3$





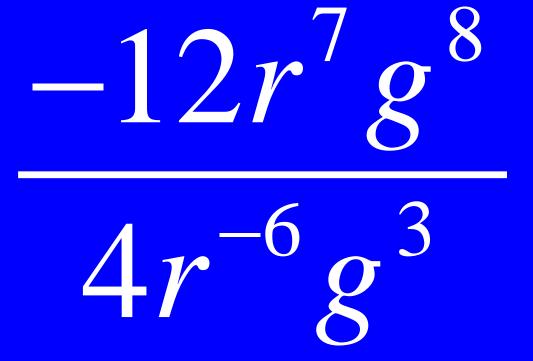








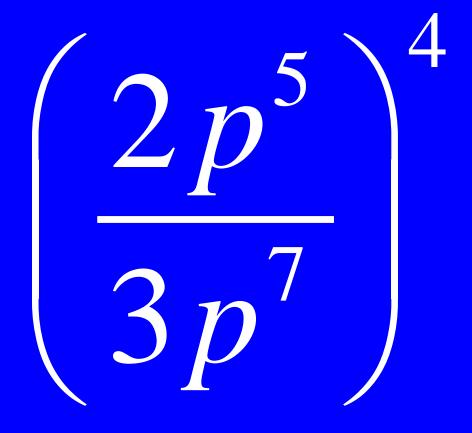


















Write the following Number in Scientific Notation

54,000,000,000







Write the following Number in Standard Form

 9.17×10^{-5}







Simplify the Expression in Scientific Notation

$$(5.6 \times 10^{-4})(1.4 \times 10^{-7})$$







Simplify the Expression in Scientific Notation

$$\left(5.25\times10^{12}\right)$$

 $\left(3.5\times10^3\right)$







Simplify the Expression in Scientific Notation

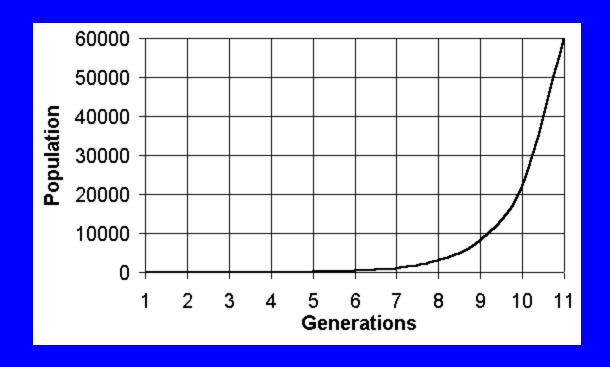
$$\frac{\left(8.633\times10^{-11}\right)}{\left(8.9\times10^{-3}\right)} + \left(1.2\times10^{-9}\right)$$







Exponential Growth or Decay?









Exponential Growth or Decay?

Day	Fractional Part of the Rock Remaining	
1	1	
2	1 2	
3	1 4	
4	<u>1</u> 8	







The value, y, of a \$15,000 investment over x years is represented by the equation

$$y = 15000(1.2)^x$$

What is the investment worth after 6 years?





Kathy plans to purchase a car that depreciates (loses value) at a rate of 14% per year. The initial cost of the car is \$21,000. Which equation represents the value, *v, of the car after 3 years?*





The population of Henderson City was 3,381,000 in 1994, and is growing at an annual rate of 1.8%. If this growth rate continues, what will the approximate population of Henderson City be in the year 2000?







1

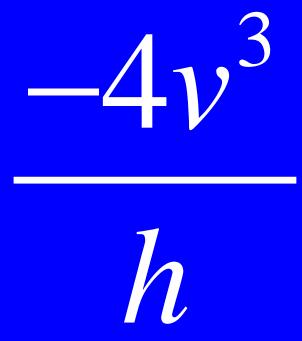


$$\frac{1}{g^3 d^4}$$



$$\frac{1xz^6a^4}{4y^3b}$$







64d²⁷



 $12x^{18}$



$120k^{8}$



 $9y^6z^{10}$



32c⁶

33



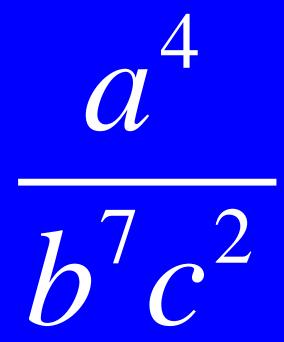
$216x^{13}y^7$



CATEGORY 3 - \$100

2g³
5







y⁶m³



$$-3r^{13}g^{5}$$



16 81p⁸



5.4×10^{10}



0.0000917



7.84×10^{-11}



1.5×10^9



1.09×10^{-8}



Growth



Decay



\$44,789.76



\$13,357.18



3,762,979





Can You Evaluate??

Evaluate the Following Expression in Fraction Form

$$x = -3$$
, $y = 2$, and $z = 7$

$$6x^{-2}y^{-4}z$$



FINAL CATEGORY

 7

 24

END OF GAME

Daily Doubles and usage notes follow...















