

Find your name and # on the class list next to the cell phone hanger, and put your cell phone in that pocket. Then find your new seat from the seating chart.

Jan 4-2:14 PM

Warm Up - Write each problem. Fill in each box with the correct number.

1) 
$$x^3 \cdot x^5 = x^8$$

4) 
$$(6x^{-3}y)^2 = 36x^4y^2$$

2) 
$$(-3x^{2}y^{5})^{3} = 1x^{6}y^{15}$$

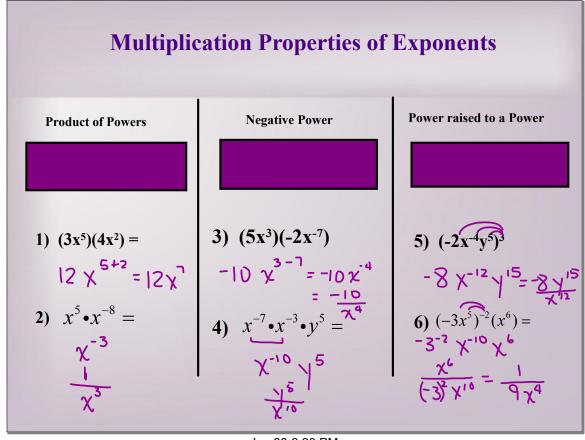
$$\chi^{-3} \cdot \chi^{-3} = \chi^{-6}$$
5) 
$$(3xy)^0 = 0 \quad \text{or} \quad 1$$

$$3) \quad \frac{x^8}{x^5} = x^2$$

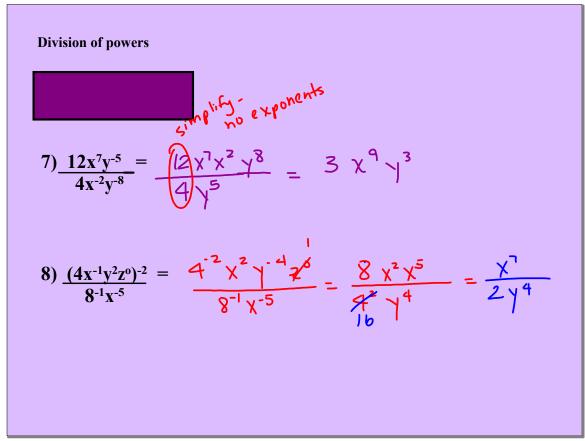
## **Properties of Exponents**

multiplication property
division property
power raised to a power
negative exponents

Jun 30-8:41 PM



Jun 30-9:20 PM



Jan 17-8:52 PM



Dec 22-11:48 AM

## Let's check out this pattern!

$$3^{3} = 3 \cdot 3 \cdot 3 = 27$$

$$3^{2} = 3 \cdot 3 = 9$$

$$3^{1} = 3 = 3$$

$$3^{0} = 1$$

$$3^{-1} = \frac{1}{3}$$

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

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

What is happening every time the exponent decreases by 1?

Dec 22-11:55 AM

## Laws of Exponents Wrap Up

Compare your answer with the person sitting next to you.

$$\frac{-6 \, \text{m}^4 \text{n}^3 - 2 \, \text{m}^4 \text{n}^3}{3} - 2 \, \text{m}^4 \text{n}^3}{4 \, \text{y}^2 \text{a}^{-5} \text{z}} - 6 \, \text{m}^4 \text{3}^{-1} \text{n}^3 \quad \text{k}^8$$

$$\times^2 \text{y}^{-3} \quad \text{d}^{-5} \text{e} \, \text{n}^7 \quad \text{h}^{-1} \, \text{g}$$

negative exponents

## Go Cougar Basketball!



Get out your chromebook to join 2nd semester google classroom. The homework link is on my website calendar.

HW - pg. 368 #2-24 even

Be sure to write the problem, show the work and the answer.

Dec 22-2:05 PM