**Exponent Rules**

**Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Date**: \_\_\_\_\_\_\_\_\_\_\_\_

**Directions**: Record your answers from the nspire document in the spaces provided.

**Page 1.2**

As you move the sliders up and down fill in the exponents in the spaces below. Look at your results to see if there is a pattern.









Do you notice a pattern? Will this pattern work with any number?

Open up a scratch pad and see if this pattern will work for any number. Try the list below.

 

 

 

**RULE**: When multiplying powers with the same base ………



Use the above rule to simplify each expression at the right

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****As you move the sliders up and down fill in the exponents in the spaces below. Look at your results to see if there is a pattern.

 

 

Do you notice a pattern? Will this pattern work with any number?

Open up a scratch pad and see if this pattern will work for any number. Try the list below.

   

RULE: When dividing powers with the same base …….



Now use the above rule to simplify the expressions at the right.

