Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_

**Lesson 10.3A Quotient of Powers Property\_Classwork**

*Objective: divide powers with the same base; simiplify expressions involving the quotient of powers. CC.SS.EE.1*

Evaluate $\frac{2∙2∙2∙3∙3∙4}{2∙2∙3∙3∙3}$



b. Describe the pattern in the table. Then write a rule for dividing two powers that have the same base.

KEEP THE BASE THE SAME AND \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ THE EXPONENTS

 $\frac{a^{m}}{a^{n}}= a^{\\_\\_\\_\\_\\_\\_\\_\\_}$ $\frac{3^{10}}{3^{6}}=$

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| **ADDITIONAL EXAMPLES BEFORE STARTING CLASSWORK:****Simplify the expression. Write your answer as a power.** |

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| **CW: (10.3A) p. 426 #3 – 14 all**Remember to copy down the problem, show your work, and check answers on p. A39 |