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

**10.3A NOTES – Quotient of Powers Property**

CCSS: 8.EE.1 (Divide powers with the same base)

HW: (10.3A) p. 426 #1 – 15 al. Do in Big Ideas Math (remember to copy down the problem, show your work, and check answers on p. A39)

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

CW: 10.3 Activity in R&P p. 211



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| 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 **CREATE YOUR OWN EXAMPLE:** **EXAMPLE**  $\frac{a^{m}}{a^{n}}= a^{\\_\\_\\_\\_\\_\\_\\_\\_}$  $\frac{3^{10}}{3^{6}}=$  |

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

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| **Warm Up:****Is 32 + 33 equal to 35? Explain.** |