

Exponent Law Examples

For each example below:

1. Categorize the question into one of the four different exponent laws.
2. Copy the question into its corresponding law's example place on your Pink Exponent Foldable note sheet.
3. Solve the question showing all work. Leave your answer in exponential form.
Remember, this is a tool to help you when doing homework, so showing all work on your foldable will help you if you get stuck in the future.

Day 1: Product & Quotient Rules

$$(8^7) \div (8^4)$$

$$(-7)^3(-7)^5$$

$$(x^2)(x^{18})$$

$$(5a^7) / (2a^3)$$

$$(-z)^6 / (-z)^5$$

$$(7b^9)(3b^3)$$

Day 2: Product/Quotient Power Rule & Power Rule

$$[(3)(4)]^5$$

$$(\frac{5}{6})^3$$

$$(5^2)^3$$

$$(a^7)^3$$

$$(2x)^3$$

$$(3b/c)^4$$

$$(abc)^3$$

$$(2x^3)^3$$

$$(xy/z)^8$$