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

**Exponents & Radicals**

**Activate Prior Learning: Exponent Laws**

**Product of powers law**



When the bases of the powers are the same, add the exponents.



= 27

**Quotient of powers law**



When the bases of the powers are the same, subtract the exponents.



= 

**Power of a power law**



Multiply the exponents.





Check Your Understanding

**1.** Write as a single power.

**a)**  **b)**  **c)**  **d) **

**2.** Write as a single power.

**a)**  **b)**  **c)**  **d) **

**3.** Why can you not use the exponent laws to calculate 26 · 34?

**4.** How do you know that