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

# WS 1-4 H

# Exponents

# Write the expression in exponential form.

# 1. $t∙t∙t∙t$ 2. b to the 4th power 3. $4∙4∙4$

# Evaluate the power.

4. $5^{2}$ 5. $1^{5}$ 6. $10^{7}$

Simplify.

7. $(4∙8)^{2}$ 8. $((2x)^{2})^{3}$ 9. $((\frac{1}{2}x)^{5})^{2}$

Simplify, then evaluate the expression when a = 2 and b = 1.

10. -($b^{3})$ 11. $(a^{3}∙a^{1})^{3}$ 12. $(a^{2}∙b^{3})^{2}$