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

# WS 1-4

# Write the expression in exponential form

# 1. $2∙2∙2∙2∙2$ 2. $q∙q$ 3. 5 to the 1st power

# Evaluate the power.

4. $9^{3}$ 5. $12^{2}$ 6. $3^{3}$

Simplify.

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

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

10. $a^{3}a^{1}$ 11. $(a∙b)^{2}$ 12. $(ab^{2})^{5}$