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

# WS 10-2

# Simplifying Radicals

1. What is a radical symbol?

**For the following, find** $\sqrt{ab}$ **and** $\sqrt{a}∙\sqrt{b}$**.**

1. a = 9, b = 16 3. a = 25, b = 9
2. a = 4, b = 81 5. a = 36, b = 16

**For the following, find** $\sqrt{\frac{a}{b}}$ **and** $\frac{\sqrt{a}}{\sqrt{b}}$**.**

6. a = 49, b = 9 7. a = 16, b = 64

8. a = 100, b = 4 9. a = 36, b = 1

**Simplify the following expressions.**

10. $\frac{\sqrt{4}}{\sqrt{1}}$ 11. $\sqrt{24}$

12. $\sqrt{121}$ 13. $\sqrt{\frac{9}{36}}$

14. $18\sqrt{\frac{5}{81}}$ 15. $\sqrt{3}∙\sqrt{27}$

16. $\sqrt{88}$ 17. $\frac{\sqrt{36}}{\sqrt{64}}$