JMJ

Name: _____ Date:_____

Algebra I

Directions: Multiply or divide the radicals. Make sure all answers are in simplest form.

1. $\sqrt{3} \cdot \sqrt{6}$

2. $\sqrt{2} \cdot \sqrt{20}$

3. $3\sqrt{8} \cdot \sqrt{7}$

4. $2\sqrt{2} \cdot 4\sqrt{64}$

5. $3\sqrt{a} \cdot 2\sqrt{ab^2}$

6. $\sqrt{cd} \cdot \sqrt{cd}$

7. $\sqrt{0.5} \cdot \sqrt{0.5x^2}$

8. $\sqrt{a^2b} \cdot \sqrt{ab^2}$

9. $10\sqrt{10} \cdot 5\sqrt{5}$

10. $4\sqrt{3a^2b^3} \cdot 6\sqrt{8a^3b^3}$

11. $\frac{\sqrt{8}}{\sqrt{2}}$

12. $\frac{\sqrt{100}}{\sqrt{4}}$

13. $\frac{\sqrt{16}}{\sqrt{2}}$

14. $\frac{6\sqrt{144}}{3\sqrt{12}}$

15. $\frac{2\sqrt{a^2b}}{\sqrt{ab}}$

16. $\frac{\sqrt{24x^2}}{\sqrt{6x^2}}$

17. $\frac{\sqrt{63b^6}}{\sqrt{7b^3}}$

18. $\frac{\sqrt{81xy^2}}{\sqrt{27y}}$

19. $\frac{8\sqrt{ab}}{2\sqrt{b}}$

20. $\frac{100\sqrt{c^4d^3}}{4\sqrt{25cd}}$

21. $\frac{\sqrt{8}+\sqrt{12}}{\sqrt{2}}$

22. $\frac{\sqrt{30}-\sqrt{20}}{\sqrt{5}}$

23. $\frac{50\sqrt{24}+28\sqrt{54}}{2\sqrt{3}}$

24. $\frac{6\sqrt{96}-5\sqrt{24}}{\sqrt{2}}$