

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

**WS 14C.1 – Multiplying Radicals**

#1-10, Simplify each radical expression.	
1. $\sqrt{6} \cdot \sqrt{12}$	2. $\sqrt[3]{3} \cdot \sqrt[3]{18}$
3. $4\sqrt{2x} \cdot 5\sqrt{6xy^2}$	4. $-\sqrt[3]{2m^2n^2} \cdot 2\sqrt[3]{16m^5n}$
5. $(3\sqrt{5} + 2\sqrt{10})(2\sqrt{5} + 4\sqrt{10})$	6. $(-\sqrt{7d^5})(-4\sqrt{42df^9})$
7. $(3\sqrt{x} - 4\sqrt{5})^2$	8. $5\sqrt{2ab^6} \cdot 2\sqrt{2a^3b}$
9. $\sqrt{8}(\sqrt{24} - 3\sqrt{8})$	10. $-\sqrt[3]{729a^5b^5} \cdot 3\sqrt[3]{64a^7b^6}$