Name:	Date:
Topic:	Class:

Main Ideas/Questions	Notes/Examples
Multiplying Radicals	① Multiply coefficients.
	② Multiply the radicands using the the **PRODUCT RULE**: $\sqrt{a} \cdot \sqrt{b} =$
	③ **SIMPLIFY** the resulting radical.
Examples	**Directions:** Find each product. Write your answer in simplest radical form.

1. $\sqrt{8} \cdot -3\sqrt{2}$	**2.** $\sqrt{3} \cdot -\sqrt{2}$
3. $5\sqrt{10} \cdot -7\sqrt{12}$	**4.** $-4\sqrt{14} \cdot 2\sqrt{8}$
5. $4\sqrt{6n^2} \cdot \sqrt{6n}$	**6.** $-5\sqrt{20x} \cdot 3\sqrt{15x}$
7. $2\sqrt{15w^3} \cdot \sqrt{3w^4}$	**8.** $7\sqrt{12a^3} \cdot -2\sqrt{6a}$
9. $10\sqrt{2} \cdot 3\sqrt{10}$	**10.** $\sqrt{12x^2} \cdot \sqrt{2x^4}$

WATCH OUT for the order of operations!