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

Multiplying Radical Expressions

Simplify.

1. $\frac{\sqrt{8}}{\sqrt{100}}$ 2. $\frac{3\sqrt{20}}{2\sqrt{4}}$ 3. $\frac{\sqrt{4}}{5\sqrt{3}}$

4. $\frac{\sqrt{2}}{2\sqrt{3}}$ 5. $\frac{\sqrt{15xy}}{3\sqrt{10xy^{3}}}$ 6. $\frac{3n^{2}+\sqrt{2n^{2}}}{\sqrt{10n}}$

7. $\frac{\sqrt{5k^{4}}+3\sqrt{2k}}{\sqrt{3k^{3}}}$ 8. $\frac{5}{-5+3\sqrt{3}}$ 9. $\frac{4}{\sqrt{2}-5\sqrt{3}}$

10. $\frac{\sqrt{5}+2\sqrt{2}}{4-\sqrt{5}}$ 11. $\frac{3-4\sqrt{3}}{4\sqrt{5}+3\sqrt{2}}$