

4-4 Radicals – Rationalizing the Denominator

Name: _____

Time> Start: _____ Finish: _____ Total Time = _____

Simplify each radical expression. Show your work on a separate piece of paper if necessary.

_____ 1. $\frac{4}{\sqrt{2}}$

_____ 2. $\frac{-5}{\sqrt{7}}$

_____ 3. $\frac{2\sqrt{2}}{\sqrt{5}}$

_____ 4. $\frac{\sqrt{20}}{\sqrt{12}}$

_____ 5. $\frac{\sqrt{18}}{\sqrt{20}}$

_____ 6. $\frac{2\sqrt{10}}{5\sqrt{12}}$

_____ 7. $\frac{3+\sqrt{2}}{\sqrt{5}}$

_____ 8. $\frac{2+7\sqrt{2}}{\sqrt{10}}$

_____ 9. $\frac{3}{2+\sqrt{5}}$

_____ 10. $\frac{4+\sqrt{2}}{2-\sqrt{2}}$

_____ 11. $\frac{1+\sqrt{5}}{4-\sqrt{5}}$

_____ 12. $\frac{2+\sqrt{3}}{4-\sqrt{3}}$

_____ 13. $\frac{3+\sqrt{2}}{2-\sqrt{3}}$

_____ 14. $\frac{3+3\sqrt{2n^2}}{\sqrt{12n}}$

_____ 15. $\frac{2+4\sqrt{2n}}{\sqrt{18n^2}}$