

Name: _____

Period: _____ Date: _____

Rationalizing Radical Expressions

ie 1: $\frac{5}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{5\sqrt{3}}{3}$

ie 2: $\frac{6}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{6\sqrt{2}}{2} = 3\sqrt{2}$

1. $\frac{8}{\sqrt{5}} \cdot \frac{\sqrt{5}}{\sqrt{5}} = \frac{8\sqrt{5}}{5}$

2. $\frac{10}{\sqrt{7}} \cdot \frac{\sqrt{7}}{\sqrt{7}} = \frac{10\sqrt{7}}{7}$

3. $\frac{11}{\sqrt{8}} = \frac{11}{2\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{11\sqrt{2}}{4}$

4. $\frac{12}{\sqrt{6}} \cdot \frac{\sqrt{6}}{\sqrt{6}} = \frac{12\sqrt{6}}{6} = 2\sqrt{6}$

5. $\frac{8}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{8\sqrt{2}}{2} = 4\sqrt{2}$

6. $\frac{20}{\sqrt{5}} \cdot \frac{\sqrt{5}}{\sqrt{5}} = \frac{20\sqrt{5}}{5} = 4\sqrt{5}$

7. $\frac{2}{\sqrt{3}} = \frac{2\sqrt{3}}{3}$

8. $\frac{10}{\sqrt{2}} = 5\sqrt{2}$

9. $\frac{17}{\sqrt{6}} = \frac{17\sqrt{6}}{6}$

10. $\frac{9}{\sqrt{3}} = 3\sqrt{3}$

11. $\frac{21}{\sqrt{18}} = \frac{7\sqrt{2}}{2}$

12. $\frac{15}{\sqrt{27}} = \frac{5\sqrt{3}}{3}$

13. $\frac{12}{\sqrt{48}} = \sqrt{3}$

14. $\frac{6}{4\sqrt{12}} = \frac{\sqrt{3}}{4}$