

## Rationalizing the Denominator

To be fully simplified means there is no radical left in the denominator. Sometimes this can occur with dividing. The process of eliminating the radical is called rationalizing the denominator.

To rationalize a denominator, $\qquad$ both the numerator and denominator by the radical in the denominator, then simplify.

Examples
Directions: Find each quotient. Write your answer in simplest radical form.
13. $\frac{4}{\sqrt{7}}$
16. $\sqrt{\frac{6}{18}}$
15. $\sqrt{\frac{81}{2}}$
18. $\frac{\sqrt{4}}{10 \sqrt{3}}$
19. $\frac{5 \sqrt{12}}{\sqrt{10}}$
20. $\frac{2}{5 \sqrt{6}}$
21. $\frac{4 \sqrt{5}}{6 \sqrt{2}}$
22. $\frac{2 \sqrt{3}}{3 \sqrt{6}}$
23. $\frac{\sqrt{3}}{2 \sqrt{8}}$
24. $\frac{4 \sqrt{5}}{\sqrt{12}}$

