NAME

Module 17 Simplifying Radical Expressions
Lesson 4 Dividing Radicals

Simplify the expression.

1. $\sqrt{\frac{36}{49}}$ $\frac{6}{7}$

2. $\sqrt{\frac{100}{64}}$ $\frac{5}{4}$

3. $\frac{\sqrt{56}}{\sqrt{8}}$ $\sqrt{7}$

4. $\frac{\sqrt{16}}{\sqrt{x^2}}$ $\frac{4}{|x|}$

5. $\frac{10}{\sqrt{y^2}}$ $\frac{10}{|y|}$

6. $\frac{\sqrt{75}}{\sqrt{15}}$ $\sqrt{5}$

7. $\frac{\sqrt{4}}{\sqrt{64}}$ $\frac{1}{4}$

8. $\sqrt{\frac{8}{2}}$ 2

9. $\frac{\sqrt{7}}{\sqrt{11}}$ $\frac{\sqrt{77}}{11}$

10. $\sqrt{\frac{3}{10}}$ $\frac{\sqrt{30}}{10}$

11. $\frac{\sqrt{10}}{\sqrt{11}}$ $\frac{\sqrt{110}}{11}$

12. $\frac{\sqrt{7}}{\sqrt{14}}$ $\frac{\sqrt{2}}{2}$

13. $\frac{1}{\sqrt{48}}$ $\frac{\sqrt{3}}{12}$

14. $\sqrt{\frac{6}{32}}$ $\frac{\sqrt{3}}{4}$

15. $\frac{\sqrt{a^2}}{\sqrt{5}}$ $\frac{\sqrt{5}|a|}{5}$

16. $\frac{\sqrt{2n^2}}{\sqrt{10}}$ $\frac{\sqrt{5}|n|}{5}$

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

18. $\frac{17}{\sqrt{11}-\sqrt{6}}$ $\frac{17\sqrt{11}+17\sqrt{6}}{5}$

19. $\frac{15}{\sqrt{20}+\sqrt{17}}$ $10\sqrt{5}-5\sqrt{17}$

20. $\frac{\sqrt{5}}{\sqrt{5}-\sqrt{3}}$ $\frac{5+\sqrt{15}}{2}$