Name:

Date:

# Simplifying Radical Expressions Involving Fractions

**Simplify.**

1) $\frac{\sqrt{7}}{\sqrt{3}} =$

2) $\frac{\sqrt{17}}{\sqrt{10}} =$

3) $\frac{\sqrt{2}}{5\sqrt{3}} =$

4) $\frac{11}{3\sqrt{5}} =$

5) $\frac{2\sqrt{3x}}{\sqrt{x^3}} =$

6) $\frac{7\sqrt{5}}{\sqrt{k}} =$

7) $\frac{\sqrt{3x^2}}{y^2\sqrt{5x^3}} =$

8) $\frac{\sqrt{7}}{1-\sqrt{3}} =$

9) $\frac{\sqrt{a}}{\sqrt{a}-\sqrt{b}} =$

10) $\frac{1-\sqrt{3}}{2+\sqrt{5}} =$

11) $\frac{1}{1-\sqrt{2}} =$

12) $\frac{7}{5+\sqrt{3}} =$

13) $\frac{\sqrt{5}-\sqrt{3}}{\sqrt{3}-\sqrt{5}} =$

14) $\frac{2\sqrt{2}-7\sqrt{5}}{\sqrt{5}-3\sqrt{2}}$

15) $\frac{\sqrt{2}+\sqrt{3}}{\sqrt{2}+\sqrt{5}} =$

16) $\frac{\sqrt{y^3x^7}}{\sqrt{5y^5x^3}} =$

17) $\frac{\sqrt{11}}{3\sqrt{6}} =$

18) $\frac{m\sqrt{n}}{\sqrt{y}}$

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# Answers

**Simplify.**

1) $\frac{\sqrt{7}}{\sqrt{3}} = \frac{\sqrt{21}}{3}$

2) $\frac{\sqrt{17}}{\sqrt{10}} = \frac{\sqrt{170}}{10}$

3) $\frac{\sqrt{2}}{5\sqrt{3}} = \frac{\sqrt{6}}{15}$

4) $\frac{11}{3\sqrt{5}} = \frac{11\sqrt{5}}{15}$

5) $\frac{2\sqrt{3x}}{\sqrt{x^3}} = \frac{2\sqrt{3}}{x}$

6) $\frac{7\sqrt{5}}{\sqrt{k}} = \frac{7\sqrt{5k}}{k}$

7) $\frac{\sqrt{3x^2}}{y^2\sqrt{5x^3}} = \frac{\sqrt{15x}}{5y^2x}$

8) $\frac{\sqrt{7}}{1-\sqrt{3}} = \frac{\sqrt{7}+\sqrt{21}}{-2}$

9) $\frac{\sqrt{a}}{\sqrt{a}-\sqrt{b}} = \frac{a+\sqrt{ab}}{a-b}$

10) $\frac{1-\sqrt{3}}{2+\sqrt{5}} = -2 + \sqrt{5} + 2\sqrt{3} - \sqrt{15}$

11) $\frac{1}{1-\sqrt{2}} = -1 - \sqrt{2}$

12) $\frac{7}{5+\sqrt{3}} = \frac{35-7\sqrt{3}}{22}$

13) $\frac{\sqrt{5}-\sqrt{3}}{\sqrt{3}-\sqrt{5}} = -1$

14) $\frac{2\sqrt{2}-7\sqrt{5}}{\sqrt{5}-3\sqrt{2}} = \frac{-23-19\sqrt{10}}{7}$

15) $\frac{\sqrt{2}+\sqrt{3}}{\sqrt{2}+\sqrt{5}} = \frac{2-\sqrt{10}+\sqrt{6}-\sqrt{15}}{-3}$

16) $\frac{\sqrt{y^3x^7}}{\sqrt{5y^5x^3}} = \frac{x^2}{y}$

17) $\frac{\sqrt{11}}{3\sqrt{6}} = \frac{\sqrt{66}}{18}$

18) $\frac{m\sqrt{n}}{\sqrt{y}} = \frac{m\sqrt{ny}}{y}$

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