

Dividing Radicals

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Simplify.

1) $\frac{\sqrt{16}}{\sqrt{25}}$

2) $\frac{\sqrt{3}}{5\sqrt{48}}$

3) $\frac{\sqrt{20}}{\sqrt{64}}$

4) $\frac{\sqrt{16}}{\sqrt{4}}$

$$5) \frac{\sqrt{12}}{3\sqrt{75}}$$

$$6) \frac{\sqrt[5]{4}}{5\sqrt[5]{16}}$$

$$7) \frac{\sqrt[4]{5}}{\sqrt[4]{125}}$$

$$8) \frac{2\sqrt[4]{2}}{4\sqrt[4]{27}}$$

$$9) \frac{2\sqrt[4]{2}}{\sqrt[4]{27}}$$

$$10) \frac{\sqrt[4]{2}}{\sqrt[4]{25}}$$

$$11) \frac{5 - \sqrt{2}}{4\sqrt{6}}$$

$$12) \frac{-3 - 5\sqrt{5}}{4\sqrt{20}}$$

$$13) \frac{\sqrt{5} + 4\sqrt{2}}{5\sqrt{12}}$$

$$14) \frac{4\sqrt{3} - 5}{2\sqrt{12}}$$

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

$$16) \frac{\sqrt{3}}{5 - \sqrt{5}}$$

$$17) \frac{5\sqrt{2}}{4\sqrt{5} + 3\sqrt{3}}$$

$$18) \frac{\sqrt{3}}{4 - 4\sqrt{5}}$$

$$19) \frac{\sqrt{3}}{\sqrt{5} + 2\sqrt{2}}$$

$$20) \frac{4\sqrt{2}}{5 - 2\sqrt{5}}$$

$$21) \frac{-5 + 3\sqrt{3}}{\sqrt{11}}$$

$$22) \frac{4 - 3\sqrt{2}}{\sqrt{7}}$$

$$23) \frac{\sqrt{2} - 4\sqrt{5}}{5\sqrt{19}}$$

$$24) \frac{5 - 4\sqrt{2}}{3\sqrt{5}}$$

$$25) \frac{3\sqrt{2} + 5}{2\sqrt{7}}$$

Answers to Dividing Radicals (ID: 1)

1) $\frac{4}{5}$

5) $\frac{2}{15}$

9) $\frac{2\sqrt[4]{6}}{3}$

13) $\frac{\sqrt{15} + 4\sqrt{6}}{30}$

17) $\frac{20\sqrt{10} - 15\sqrt{6}}{53}$

21) $\frac{-5\sqrt{11} + 3\sqrt{33}}{11}$

25) $\frac{3\sqrt{14} + 5\sqrt{7}}{14}$

2) $\frac{1}{20}$

6) $\frac{\sqrt[5]{8}}{10}$

10) $\frac{\sqrt[4]{50}}{5}$

14) $\frac{12 - 5\sqrt{3}}{12}$

18) $\frac{-\sqrt{3} - \sqrt{15}}{16}$

22) $\frac{4\sqrt{7} - 3\sqrt{14}}{7}$

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

7) $\frac{\sqrt[4]{25}}{5}$

11) $\frac{5\sqrt{6} - 2\sqrt{3}}{24}$

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

19) $\frac{-\sqrt{15} + 2\sqrt{6}}{3}$

23) $\frac{\sqrt{38} - 4\sqrt{95}}{95}$

4) 2

8) $\frac{\sqrt[4]{6}}{6}$

12) $\frac{-3\sqrt{5} - 25}{40}$

16) $\frac{5\sqrt{3} + \sqrt{15}}{20}$

20) $\frac{20\sqrt{2} + 8\sqrt{10}}{5}$

24) $\frac{5\sqrt{5} - 4\sqrt{10}}{15}$