

## Dividing Radicals (including rationalizing)

Date \_\_\_\_\_ Period \_\_\_\_\_

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**Simplify.**

1)  $\frac{\sqrt{4}}{\sqrt{10}}$

2)  $\frac{7\sqrt{2}}{\sqrt{5}}$

3)  $-\frac{9}{4\sqrt{3}}$

4)  $\frac{5\sqrt{3}}{\sqrt{7}}$

5)  $\frac{9\sqrt{64}}{\sqrt{80}}$

6)  $\frac{7\sqrt{63}}{8\sqrt{42}}$

7)  $\frac{9\sqrt{5}}{7\sqrt{2}}$

8)  $\frac{\sqrt{5}}{\sqrt{6}}$

9)  $\frac{8\sqrt{5}}{5\sqrt{7}}$

10)  $\frac{3\sqrt{8}}{\sqrt{3}}$

11)  $\frac{9\sqrt{16}}{8\sqrt{80}}$

12)  $\frac{10\sqrt{10}}{\sqrt{30}}$

13)  $\frac{5\sqrt{7}}{\sqrt{6}}$

14)  $\frac{2\sqrt{12}}{5\sqrt{30}}$

15)  $\frac{3\sqrt{8}}{8\sqrt{10}}$

16)  $\frac{\sqrt{9}}{7\sqrt{8}}$

17)  $\frac{\sqrt{14}}{\sqrt{20}}$

18)  $\frac{2\sqrt{2}}{\sqrt{6}}$

19)  $\frac{\sqrt{4}}{7\sqrt{10}}$

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

## Answers to Dividing Radicals (including rationalizing) (ID: 1)

$$1) \frac{\sqrt{10}}{5}$$

$$5) \frac{18\sqrt{5}}{5}$$

$$9) \frac{8\sqrt{35}}{35}$$

$$13) \frac{5\sqrt{42}}{6}$$

$$17) \frac{\sqrt{70}}{10}$$

$$2) \frac{7\sqrt{10}}{5}$$

$$6) \frac{7\sqrt{6}}{16}$$

$$10) 2\sqrt{6}$$

$$14) \frac{2\sqrt{10}}{25}$$

$$18) \frac{2\sqrt{3}}{3}$$

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

$$7) \frac{9\sqrt{10}}{14}$$

$$11) \frac{9\sqrt{5}}{40}$$

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

$$19) \frac{\sqrt{10}}{35}$$

$$4) \frac{5\sqrt{21}}{7}$$

$$8) \frac{\sqrt{30}}{6}$$

$$12) \frac{10\sqrt{3}}{3}$$

$$16) \frac{3\sqrt{2}}{28}$$

$$20) \frac{2\sqrt{3}}{9}$$