

NAME _____**DATE** _____**PER.** _____**DIVIDE RADICALS****Simplify.**

1) $\sqrt{\frac{3}{25}} =$

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

3) $\frac{21\sqrt{96}}{2\sqrt{3}} =$

4) $\sqrt{5} + \sqrt{45} - \sqrt{80} =$

5) $\frac{9}{\sqrt{5}} =$

6) $\frac{\sqrt{80}}{\sqrt{5}} =$

7) $\frac{1}{\sqrt{2}} =$

8) $(3\sqrt{5})^2 =$

9) $\sqrt{\frac{361}{484}} =$

10) $\frac{7}{\sqrt{7}} =$

11) $-4\sqrt{10} \cdot 3\sqrt{5} =$

12) $\frac{\sqrt{24}}{\sqrt{2}} =$

13) $\frac{3\sqrt{20}}{\sqrt{5}} =$

14) $\frac{25}{\sqrt{5}} =$

15) $\sqrt{2} + \sqrt{50} =$

16) $\sqrt{\frac{2}{11}} =$

17) $\sqrt{\frac{2}{8}} =$

18) $\frac{\sqrt{150}}{\sqrt{2}} =$

19) $\frac{3}{\sqrt{6}} =$

20) $\sqrt{\frac{3}{8}} \cdot \sqrt{\frac{7}{2}} =$

Answers in random order: , $-60\sqrt{2}$, $6\sqrt{2}$, 45, $42\sqrt{2}$, 6, $5\sqrt{3}$, 4, $5\sqrt{5}$, $\sqrt{7}$, $2\sqrt{3}$, $\frac{\sqrt{21}}{4}$, $\frac{9\sqrt{5}}{5}$, $\frac{1}{2}$, $\frac{19}{22}$, $\frac{\sqrt{6}}{3}$, $\frac{\sqrt{6}}{2}$, $\frac{\sqrt{22}}{11}$, $\frac{\sqrt{3}}{5}$, $\frac{\sqrt{2}}{2}$, 0