Worksheet – Dividing Radicals and Rationalizing Monomial Denominators

Simplify.

1) $\dfrac{\sqrt{15}}{5\sqrt{20}}$

2) $\dfrac{\sqrt{8}}{\sqrt{100}}$

3) $\dfrac{\sqrt{6}}{\sqrt{27}}$

4) $\dfrac{3\sqrt{20}}{2\sqrt{4}}$

5) $\dfrac{4}{\sqrt{5}}$

6) $\dfrac{\sqrt{4}}{5\sqrt{3}}$

7) $\dfrac{\sqrt{5}}{\sqrt{3}}$

8) $\dfrac{\sqrt{2}}{2\sqrt{3}}$

Answers

1) $\dfrac{\sqrt{15}}{5\sqrt{20}}$

$\dfrac{\sqrt{3}}{10}$

2) $\dfrac{\sqrt{8}}{\sqrt{100}}$

$\dfrac{\sqrt{2}}{5}$

3) $\dfrac{\sqrt{6}}{\sqrt{27}}$

$\dfrac{\sqrt{2}}{3}$

4) $\dfrac{3\sqrt{20}}{2\sqrt{4}}$

$\dfrac{3\sqrt{5}}{2}$

5) $\dfrac{4}{\sqrt{5}}$

$\dfrac{4\sqrt{5}}{5}$

6) $\dfrac{\sqrt{4}}{5\sqrt{3}}$

$\dfrac{2\sqrt{3}}{15}$

7) $\dfrac{\sqrt{5}}{\sqrt{3}}$

$\dfrac{\sqrt{15}}{3}$

8) $\dfrac{\sqrt{2}}{2\sqrt{3}}$

$\dfrac{\sqrt{6}}{6}$