Dividing Radicals

When dividing radicals divide the coefficients outside the radical and divide the radicands. Always express your answer in simplest form.

Example 1

$$\frac{18\sqrt{24}}{6\sqrt{3}} = 3\sqrt{6}$$

Example 2

$$\frac{4\sqrt{14}}{8\sqrt{2}} = \frac{1}{2}\sqrt{7}$$

Example 3

$$\frac{16\sqrt{48}}{-20\sqrt{2}} = -\frac{4\sqrt{24}}{5} = -\frac{4\sqrt{4\cdot6}}{5} = -\frac{4\cdot2\sqrt{6}}{5} = -\frac{8\sqrt{6}}{5}$$