

Practice

$$\textcircled{1} \quad -5\sqrt{3} - 3\sqrt{3}$$

$$\textcircled{2} \quad 2\sqrt{8} + 8\sqrt{8}$$

$$\textcircled{3} \quad -3\sqrt{12} + 3\sqrt{3} + 3\sqrt{20}$$

$$\textcircled{4} \quad 3\sqrt{75} + 2\sqrt{63} - 3\sqrt{48}$$

$$\textcircled{5} \quad -2\sqrt{45} - 3\sqrt{20} - 2\sqrt{6}$$

$$\textcircled{6} \quad -3\sqrt{27} - 3\sqrt{27} - 3\sqrt{27}$$

Practice

$$\textcircled{1} \quad \sqrt{5} \cdot \sqrt{3}$$

$$\textcircled{2} \quad (3\sqrt{10})(2\sqrt{6})$$

$$\textcircled{3} \quad 4\sqrt{15}(-3\sqrt{6} + 5)$$

$$\textcircled{4} \quad -\sqrt{2}(\sqrt{10} - 4\sqrt{6})$$

$$\textcircled{5} \quad \frac{3\sqrt{80}}{6\sqrt{5}}$$

$$\textcircled{6} \quad \frac{10\sqrt{40}}{5\sqrt{2}}$$

Simplify Each

a) $\sqrt{12}$

b) $\sqrt{20}$

c) $\sqrt{18}$

d) $\sqrt{27}$

e) $\sqrt{98}$

f) $\sqrt{72}$

g) $\sqrt{125}$

h) $\sqrt{396}$

i) $\sqrt{363}$

j) $2\sqrt{44}$

k) $7\sqrt{128}$

l) $4\sqrt{300}$

Perform the Operation - Simplify!

a) $3\sqrt{5} + 4\sqrt{5}$

b) $2\sqrt{7} + 7\sqrt{2}$

c) $14\sqrt{8} - 5\sqrt{8}$

d) $2\sqrt{11} + 7\sqrt{11} - 4\sqrt{11}$

e) $7\sqrt{6} + 4\sqrt{3} - 3\sqrt{6} + 2\sqrt{2}$

f) $\sqrt{8} + \sqrt{18}$

g) $\sqrt{75} - \sqrt{20}$

h) $\sqrt{27} + \sqrt{48} - 2\sqrt{3}$

i) $-5\sqrt{44} + 2\sqrt{99}$

j) $3\sqrt{72} + 2\sqrt{75} - 3\sqrt{27} + \sqrt{108}$

k) $\sqrt{250} - \sqrt{135} - \sqrt{40} + \sqrt{735}$

$$3\sqrt{75} + 2\sqrt{63} - 3\sqrt{48}$$

Perform the Operation - Simplify!

a) $(\sqrt{2})(\sqrt{5})$

b) $(3\sqrt{2})(\sqrt{6})$

c) $(\sqrt{8})(\sqrt{6})$

d) $\frac{\sqrt{72}}{\sqrt{6}}$

e) $\frac{\sqrt{50}}{\sqrt{5}}$

f) $\frac{27\sqrt{490}}{9\sqrt{5}}$

g) $(\sqrt{8})\left(\sqrt{\frac{1}{2}}\right)$

h) $(2\sqrt{15})(3\sqrt{30})$

i) $(6\sqrt{2})(6\sqrt{18})$

j) $\left(\sqrt{\frac{2}{5}}\right)\left(\sqrt{\frac{9}{2}}\right)\left(\sqrt{\frac{10}{3}}\right)$

k) $\frac{\sqrt{7}}{\sqrt{63}}$

l) $\frac{24\sqrt{56}}{6\sqrt{7}}$

