

# Operations with Radicals

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Simplify the following.

1)  $7\sqrt[3]{4} + 3\sqrt[3]{4}$

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2)  $5\sqrt{5} - \sqrt{5}$

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3)  $2\sqrt{6} \times 9\sqrt{6}$

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4)  $\frac{\sqrt{49}}{\sqrt{121}}$

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5)  $3\sqrt[3]{9} \times 2\sqrt[3]{9} \times 5\sqrt[3]{9}$

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6)  $\frac{\sqrt{144}}{\sqrt{3}}$

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7)  $6\sqrt{8} \times \sqrt{8} \times 3\sqrt{8}$

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8)  $4\sqrt{7} + 8\sqrt{7}$

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9)  $14\sqrt[3]{6} - 6\sqrt[3]{6}$

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10)  $9\sqrt{2} - 4\sqrt{2}$

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11)  $\frac{\sqrt[3]{216}}{\sqrt[3]{27}}$

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12)  $12\sqrt[3]{3} + 7\sqrt[3]{5} + 8\sqrt[3]{3}$

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