



Math worksheet on 'Radicals - Adding and Subtracting (Values Only) (Level 5)'. Part of a broader unit on 'Radicals - Addition and Subtraction Intro'

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2 Simplify, then add or subtract the radical expressions

$$\sqrt[3]{297} + \sqrt[3]{88} + \sqrt[3]{704}$$

- | | |
|--|--|
| a $2\sqrt[3]{7} + 2\sqrt[3]{13} + \sqrt[3]{14}$ | b $5\sqrt[3]{11} + 4\sqrt[3]{11}$ |
| c $2\sqrt[3]{14} + \sqrt[3]{8} + \sqrt[3]{11}$ | d $\sqrt[3]{11} + 4\sqrt[3]{11}$ |
| e $5 + 4\sqrt[3]{11}$ | f $3\sqrt[3]{9} + \sqrt[3]{10} + \sqrt[3]{7}$ |

4 Simplify, then add or subtract the radical expressions

$$\sqrt{176} - \sqrt{275} - \sqrt{44}$$

- | | |
|-------------------------------------|------------------------------------|
| a $-1\sqrt{11} - 2\sqrt{11}$ | b $2\sqrt{7} - 7\sqrt{10}$ |
| c $-1 - 2\sqrt{11}$ | d $5\sqrt{11} - 2\sqrt{11}$ |
| e $3\sqrt{11} - 2\sqrt{11}$ | f $\sqrt{11} - 2\sqrt{11}$ |

6 Simplify, then add or subtract the radical expressions

$$\sqrt[3]{56} + \sqrt[3]{189} + \sqrt[3]{56}$$

- | | |
|--|--|
| a $5 + 2\sqrt[3]{7}$ | b $5\sqrt[3]{7} + 2\sqrt[3]{7}$ |
| c $3\sqrt[3]{9} + \sqrt[3]{7} + 4\sqrt[3]{3}$ | d $4\sqrt[3]{7} + 2\sqrt[3]{7}$ |
| e $\sqrt[3]{7} + \sqrt[3]{5} + \sqrt[3]{4}$ | f $\sqrt[3]{7} + 2\sqrt[3]{7}$ |

1 Simplify, then add or subtract the radical expressions

$$\sqrt[3]{189} + \sqrt[3]{56} + \sqrt[3]{56}$$

- | | |
|--|--|
| a $4\sqrt[3]{7} + 2\sqrt[3]{7}$ | b $5 + 2\sqrt[3]{7}$ |
| c $3\sqrt[3]{7} + 2\sqrt[3]{7}$ | d $\sqrt[3]{7} + 2\sqrt[3]{7}$ |
| e $2\sqrt[3]{7} + 2\sqrt[3]{7}$ | f $5\sqrt[3]{7} + 2\sqrt[3]{7}$ |

3 Simplify, then add or subtract the radical expressions

$$\sqrt[3]{135} - \sqrt[3]{135} - \sqrt[3]{320}$$

- | | |
|--|--|
| a $3\sqrt[3]{7} - \sqrt[3]{2} - 7\sqrt[3]{3}$ | b $\sqrt[3]{5} - 4\sqrt[3]{5}$ |
| c $3\sqrt[3]{2} - \sqrt[3]{4} - 4\sqrt[3]{6}$ | d $\sqrt[3]{2} - 2\sqrt[3]{7} - 2\sqrt[3]{3}$ |
| e $4\sqrt[3]{5}$ | f $5\sqrt[3]{5} - 4\sqrt[3]{5}$ |

5 Simplify, then add or subtract the radical expressions

$$\sqrt{63} + \sqrt{63} - \sqrt{112}$$

- | | |
|--|----------------------------------|
| a $4\sqrt{4} + \sqrt{10} - 3\sqrt{6}$ | b $\sqrt{9} + 4\sqrt{8}$ |
| c $\sqrt{7} + 4\sqrt{7}$ | d $6\sqrt{3} + 4\sqrt{7}$ |
| e $5\sqrt{10} + 2\sqrt{3} - \sqrt{6}$ | f $6\sqrt{7} + 4\sqrt{7}$ |

7 Simplify, then add or subtract the radical expressions

$$\sqrt{32} + \sqrt{50} + \sqrt{50}$$

- | | |
|--------------------------------------|----------------------------------|
| a $1 + 8\sqrt{4} + 6\sqrt{2}$ | b $4\sqrt{2} + 5\sqrt{2}$ |
| c $9\sqrt{2} + 5\sqrt{2}$ | d $\sqrt{2} + 5\sqrt{2}$ |
| e $9 + 5\sqrt{2}$ | f $9\sqrt{3} + 5\sqrt{2}$ |