

Radicals - Multiplying

Date _____ Period _____

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Simplify.

1) $\sqrt{6} \cdot \sqrt{5}$

2) $\sqrt{10} \cdot \sqrt{3}$

3) $\sqrt{15} \cdot 5\sqrt{2}$

4) $-3\sqrt{8} \cdot \sqrt{6}$

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

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

7) $\sqrt{6}(\sqrt{3} + \sqrt{5})$

8) $2\sqrt{15}(-2\sqrt{3} + \sqrt{2})$

9) $2\sqrt{6}(\sqrt{10} + \sqrt{2})$

10) $\sqrt{5}(-2\sqrt{6} + 2)$

11) $(-2 + \sqrt{2})(-5 + 5\sqrt{2})$

12) $(-4\sqrt{2} + \sqrt{5})(-\sqrt{2} + 2\sqrt{3})$

13) $(\sqrt{5} + \sqrt{3})(3\sqrt{5} + \sqrt{3})$

14) $(\sqrt{5} + \sqrt{2})(\sqrt{5} + \sqrt{4})$

15) $(-\sqrt{3} - 1)(\sqrt{3} - 2)$

Answers to Radicals - Multiplying (ID: 1)

1) $\sqrt{30}$

2) $\sqrt{30}$

3) $5\sqrt{30}$

4) $-12\sqrt{3}$

5) 20

6) $-18 + 8\sqrt{3}$

7) $3\sqrt{2} + \sqrt{30}$

8) $-12\sqrt{5} + 2\sqrt{30}$

9) $4\sqrt{15} + 4\sqrt{3}$

10) $-2\sqrt{30} + 2\sqrt{5}$

11) $20 - 15\sqrt{2}$

12) $8 - 8\sqrt{6} - \sqrt{10} + 2\sqrt{15}$

13) $18 + 4\sqrt{15}$

14) $5 + 2\sqrt{5} + \sqrt{10} + 2\sqrt{2}$

15) $-1 + \sqrt{3}$