Multipying Radicals Practice

Date_____ Period____

Simplify.

1) $\sqrt{15} \cdot 2\sqrt{2}$

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

3) $\sqrt{2} \cdot -4\sqrt{2}$

4) $\sqrt{5} \cdot \sqrt{2}$

5) $2\sqrt{3}(\sqrt{2} + \sqrt{3})$

6) $\sqrt{15}(\sqrt{5} + 3)$

7) $\sqrt{5}(5 - 4\sqrt{2})$

8) $\sqrt{6}(\sqrt{2} + 2)$

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

10) $-5\sqrt{5}(-2\sqrt{5} + 4)$

11) $(-5\sqrt{2} - 3\sqrt{5})(\sqrt{2} + \sqrt{5})$

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

13) $(2 + 2\sqrt{3})(-4 - 5\sqrt{3})$

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

Answers to Multipying Radicals Practice (ID: 1)

1) $2\sqrt{30}$
2) $-3\sqrt{10}$
3) -8
4) $\sqrt{10}$
5) $2\sqrt{6}+6$
6) $5\sqrt{3}+3\sqrt{15}$
7) $5\sqrt{5}-4\sqrt{10}$
8) $2\sqrt{3}+2\sqrt{6}$
9) $-12\sqrt{2}+\sqrt{6}$
10) $50-20\sqrt{5}$
11) $-25-8\sqrt{10}$
12) $-1-\sqrt{6}$
13) $-38-18\sqrt{3}$
14) $6\sqrt{10}+12$