Name : _____ Score : _____

Teacher : _____ Date : _____

Multiplying Radical Expressions

Simplify the Radical Expressions.

1) $5\sqrt{45b} \cdot 6\sqrt{48b}$

2) $-\sqrt{45c}\left(-\sqrt{112c^2} + \sqrt{12c^3}\right)$

3) $\left(7\sqrt{3d^2} + 2\sqrt{5}\right)\left(-4\sqrt{3d^2} - 5\sqrt{5}\right)$

4) $\left(-3\sqrt{7g^2} - 7\sqrt{2}\right)\left(6\sqrt{7g^2} + \sqrt{2}\right)$

5) $-4\sqrt{63}\left(5\sqrt{48} + \sqrt{8}\right)$

6) $-6\sqrt{8} \cdot 7\sqrt{63}$

7) $\sqrt{32n}\left(\sqrt{20n^2} - \sqrt{99n^3}\right)$

8) $-\sqrt{112p} \cdot \sqrt{44p}$

9) $\left(-2\sqrt{3} + 6\sqrt{11}\right)\left(3\sqrt{3} - 6\sqrt{11}\right)$

10) $\left(-\sqrt{7} + \sqrt{11}\right)\left(-\sqrt{7} + \sqrt{11}\right)$

Math-Aids.Com