

Name: _____

Math is Gold

Date: _____

Topic: Radicals

(id:rad_dis_A.1)

Title: Simplify the radicals

1) $(1 + \sqrt{2})(1 - \sqrt{2})$

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

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

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

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

6) $(a + \sqrt{3})(a - \sqrt{3})$

$$7) (x + \sqrt{2}y)(x - \sqrt{2}y)$$

$$8) (m + \sqrt{3}n)(m - \sqrt{3}n)$$

$$9) (\sqrt{2}x + \sqrt{5}y)(\sqrt{2}x - \sqrt{5}y)$$

$$10) (2\sqrt{p} + 3\sqrt{q})(2\sqrt{p} - 3\sqrt{q})$$

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

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

$$13) (\sqrt{xy} + \sqrt{yz})(\sqrt{xy} - \sqrt{yz})$$

$$14) (2\sqrt{pq} + 7\sqrt{qr})(2\sqrt{pq} - 7\sqrt{qr})$$

$$15) (2 - \sqrt{fg})(2 + \sqrt{fg})$$