

Name: _____

Math is Gold

Date: _____

Topic: Radicals

(id:rad_dis_M.1)

Title: Simplify the radicals

1) $(2 + \sqrt{5})(3 + \sqrt{5})$

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

3) $(1 + \sqrt{7})(2 + 3\sqrt{7})$

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

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

6) $(\sqrt{7} + \sqrt{2})(2\sqrt{7} - 3\sqrt{2})$

$$7) (\sqrt{5} + 3\sqrt{2})(2\sqrt{5} - \sqrt{2})$$

$$8) (\sqrt{7} + \sqrt{3})(3\sqrt{7} - 2\sqrt{3})$$

$$9) (4 - 2\sqrt{3})(1 + \sqrt{3})$$

$$10) (5 - 3\sqrt{2})(1 + 2\sqrt{2})$$

$$11) (1 + \sqrt{2})^2$$

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

$$13) (\sqrt{3} - \sqrt{7})^2$$

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

$$15) (a + \sqrt{2})^2$$