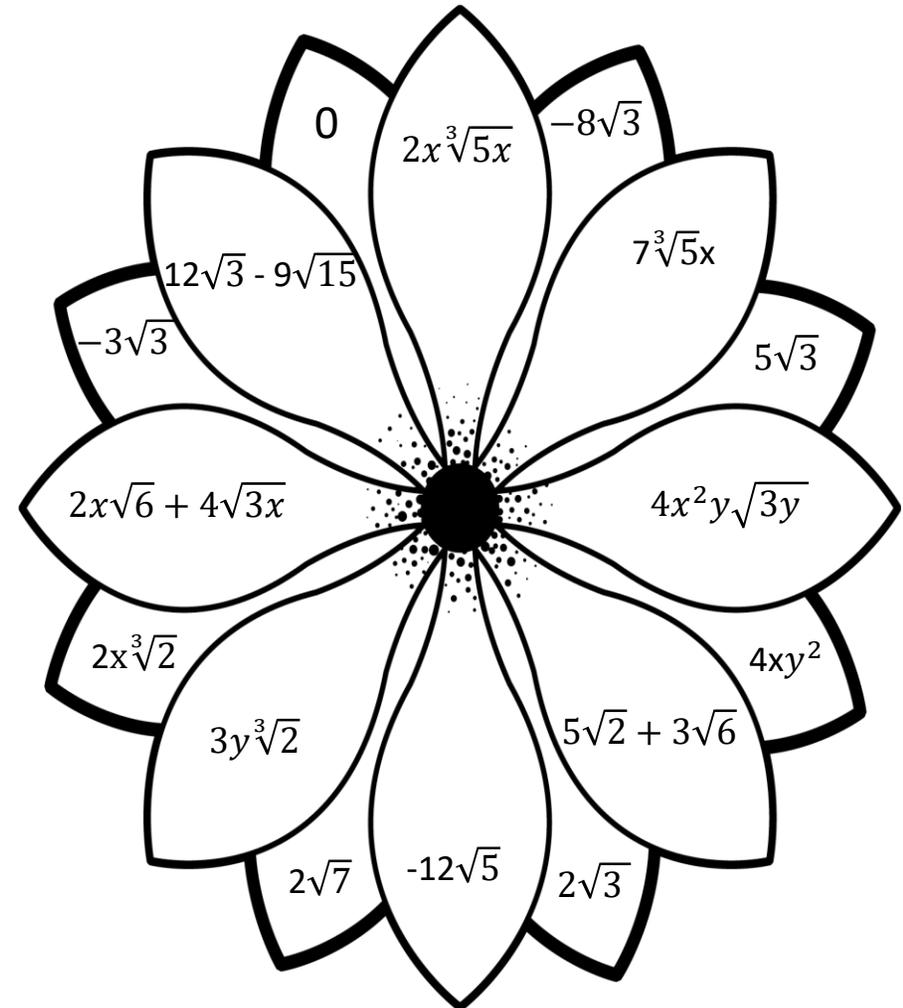


Name: _____

Operations on Radicals Coloring Activity

Choose four different colors - one for each box. Solve the problems below. Color all answers from the same box the same color. Show all your work!

<p>Answers in this box are <input style="width: 50px;" type="text"/></p> <p>1.) $\sqrt{5} \cdot \sqrt{15} =$</p> <p>2.) $\sqrt[3]{9y^3} \cdot \sqrt[3]{6} =$</p> <p>3.) $-5\sqrt{3} - 3\sqrt{3} =$</p> <p>4.) $\sqrt{2}(5 + 3\sqrt{3}) =$</p>	<p>Answers in this box are <input style="width: 50px;" type="text"/></p> <p>9.) $\sqrt{6x^4}(2\sqrt{2y^3}) =$</p> <p>10.) $\sqrt{2}(\sqrt{6}) =$</p> <p>11.) $\sqrt[3]{10x^3} \cdot \sqrt[3]{4x} =$</p> <p>12.) $-3\sqrt{12} + 3\sqrt{3} =$</p>
<p>Answers in this box are <input style="width: 50px;" type="text"/></p> <p>5.) $\sqrt[3]{40x} + 5\sqrt[3]{5x} =$</p> <p>6.) $\sqrt{14} \cdot \sqrt{2} =$</p> <p>7.) $\sqrt{3x}(2\sqrt{2x} + 4) =$</p> <p>8.) $2\sqrt{6} - \sqrt{24} =$</p>	<p>Answers in this box are <input style="width: 50px;" type="text"/></p> <p>13.) $-2\sqrt{45} - 3\sqrt{20} =$</p> <p>14.) $\sqrt[3]{54x^3} - \sqrt[3]{2x^3} =$</p> <p>15.) $3\sqrt{3}(4 - 3\sqrt{5}) =$</p> <p>16.) $\sqrt{2xy} \cdot \sqrt{8xy^3} =$</p>



Name: ANSWER KEY

Operations on Radicals Coloring Activity
 Choose four different colors - one for each box. Solve the problems below. Color all answers from the same box the same color. Show all your work!

<p>Answers in this box are</p> <p>1.) $\sqrt{5} \cdot \sqrt{15} = 5\sqrt{3}$</p> <p>2.) $\sqrt[3]{9y^3} \cdot \sqrt[3]{6} = 3y\sqrt[3]{2}$</p> <p>3.) $-5\sqrt{3} - 3\sqrt{3} = -8\sqrt{3}$</p> <p>4.) $\sqrt{2}(5 + 3\sqrt{3}) = 5\sqrt{2} + 3\sqrt{6}$</p>	<p>Answers in this box are</p> <p>9.) $\sqrt{6x^4}(2\sqrt{2y^3}) = 4x^2y\sqrt{3y}$</p> <p>10.) $\sqrt{2}(\sqrt{6}) = 2\sqrt{3}$</p> <p>11.) $\sqrt[3]{10x^3} \cdot \sqrt[3]{4x} = 2x\sqrt[3]{5x}$</p> <p>12.) $-3\sqrt{12} + 3\sqrt{3} = -3\sqrt{3}$</p>
<p>Answers in this box are</p> <p>5.) $\sqrt[3]{40x} + 5\sqrt[3]{5x} = 7\sqrt[3]{5x}$</p> <p>6.) $\sqrt{14} \cdot \sqrt{2} = 2\sqrt{7}$</p> <p>7.) $\sqrt{3x}(2\sqrt{2x} + 4) = 2x\sqrt{6} + 4\sqrt{3x}$</p> <p>8.) $2\sqrt{6} - \sqrt{24} = 0$</p>	<p>Answers in this box are</p> <p>13.) $-2\sqrt{45} - 3\sqrt{20} = -12\sqrt{5}$</p> <p>14.) $\sqrt[3]{54x^3} - \sqrt[3]{2x^3} = 2x\sqrt[3]{2}$</p> <p>15.) $3\sqrt{3}(4 - 3\sqrt{5}) = 12\sqrt{3} - 9\sqrt{15}$</p> <p>16.) $\sqrt{2xy} \cdot \sqrt{8xy^3} = 4xy^2$</p>

