

**\*Objective:**

**\*like radicals:**

**\*Combining Radical Expressions: Sum and Differences**

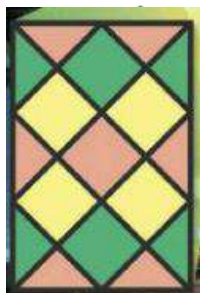
**Got It? 1.** What is the simplified form of each expression?

**a.**  $7\sqrt[3]{5} - 4\sqrt{5}$

**b.**  $3x\sqrt{xy} + 4x\sqrt{xy}$

**c.**  $17\sqrt[5]{3x^2} - 15\sqrt[5]{3x^2}$

**Got It? 2. a.** Find the perimeter of the window if the side of each small square is 6 in.



**Got It? 3.** What is the simplest form of the expression?  $\sqrt[3]{250} + \sqrt[3]{54} - \sqrt[3]{16}$

**Got It?** 4. What is the product  $(3 + 2\sqrt{5})(2 + 4\sqrt{5})$ ?

**Got It?** 5. What is each product?

a.  $(6 - \sqrt{12})(6 + \sqrt{12})$

b.  $(3 + \sqrt{8})(3 - \sqrt{8})$

**Got It?** 6. How can you write the expression with a rationalized denominator?

a.  $\frac{2\sqrt{7}}{\sqrt{3} - \sqrt{5}}$

b.  $\frac{4x}{3 - \sqrt{6}}$

**Inclass:** p. 378 #20, 26, 30, 34

**Homework:** p. 378 #11-35(odd)

**Interactmath:** #13, 16, 19, 25, 27, 29, 33