**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Teacher / Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Intermediate II *Unit 12 - Radicals Mastery Review Study Guide***

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| **Standard: 8.NS.3** - I can understand how to perform operations and simplify radical with emphasis on square roots.  Score: \_\_\_\_\_\_\_\_\_\_\_ |
| **Directions:** Simplify the following radicals as much as possible.  **1.**  = \_\_\_\_\_\_ **5.**  = \_\_\_\_\_\_\_\_  **2.**  = \_\_\_\_\_\_ **6.**  = \_\_\_\_\_\_  **3.**  = \_\_\_\_\_\_ **7.**  = \_\_\_\_\_\_\_    **4.**  = \_\_\_\_\_\_\_ **8.**  = \_\_\_\_\_\_\_ |

**Directions:** Simplify each expression. **SHOW ALWORK!**

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| **9.**  **11.**  **13.**  The area of a square tile is 176 square centimeters. What is the exact length of one edge of the tile? What is approximate length to e nearest cm?  15. 3 | **10.**  **12.**  **14.** The side length of a square mirror feet, what is the area of the mirror? What is the approximate length of the side to the nearest tenth?  16 |