**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 |