Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_\_

**7.1B Finding Square Roots\_Classwork**

LESSON OPENER

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| --- | --- | --- |
| 1 . 3 + 8 = 11  11 – 3 = 8  Provide 2 more examples of subtraction undoing addition. | a. | b. |
| 2. 5 3 = 15  15 5 = 3  Provide 2 more examples of division undoing multiplication. | a. | b. |
| 3. 42 = 16    Provide 2 more examples of square root undoing a square. | a. | b. |

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| 4. Explain how a square root undoes a square. If you want to use an example, you may use one of  your examples above with your explanation. |

*Squaring a positive number and finding a square root are inverse operations. You can use this relationship to evaluate expressions and solve equations involving squares.*

**Copy the examples from the textbook and Video Tutors in B.I.M.**

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| **7.1, Example 3 (p. 291)**  Evaluate each expression | **Video Tutor 7.1, Example 3**  Evaluate each expression |

On Your Own problems #7 – 10 (p. 291). DIRECTIONS: Evaluate the expression.

|  |  |  |
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| 7. | 8. | 9. |

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| **7.1, Example 4 (p. 291)** |
| **Video Tutor 7.1, Example 4**  What is the radius of the circle? Use 3.14 for |

On Your Own

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| 10a. The area of a circle is 2826 square feet. Write and solve an equation to find the  radius of the circle. Use 3.14 for |
| 10b. The area of a circle is . Write and solve an equation to find the radius  of the circle. |

**HW: 7.1B Homework (handout)**

Objective: Evaluate expressions using square roots. (8.EE.2)