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

**7.1A Finding Square Roots\_Classwork**

*Objective: Apply areas and side lengths of squares to finding the square root of perfect squares. (CC.SS.8.EE.2;MP6 Attend to Precision)*

*HW: (7.1A) p. 292 #1, 4, 5, 7 – 19 (Solutions on p. A31)*

**Find the area, *A*, of the squares given the side length, *s*. (A = s2)**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. s = 10      A = \_\_\_\_ | 2. s = 12      A = \_\_\_\_ | 3. s = 20      A = \_\_\_\_ | 4. s = 14      A = \_\_\_\_ |
| 5. s = 0.5      A = \_\_\_\_ | 6. s =      A = \_\_\_\_ | 7. s = 1.5      A = \_\_\_\_ | 8. s =      A = \_\_\_\_ |

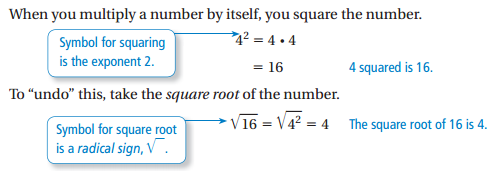
ESSENTIAL QUESTION: How can you find the area of a square when given the square’s dimensions?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Find the side of the square, *s*, when given the area of the square, *A*.**

|  |  |  |  |
| --- | --- | --- | --- |
| 9.  A = 25        s = \_\_\_\_ | 10.  A = 16        s = \_\_\_\_ | 11  A = 121        s = \_\_\_\_ | 12.  A = 225        s = \_\_\_\_ |
| 13.  A =        s = \_\_\_\_ | 14.  A = 1        s = \_\_\_\_ | 15.  A = 0.64        s = \_\_\_\_ | 16.  A =        s = \_\_\_\_ |

ESSENTIAL QUESTION: How can you find the dimensions of a square when you are given its area?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**7.1A (p. 288) – FINDING SQUARE ROOTS**



**READ P. 290 EXAMPLES 1 AND 2. FILL IN THE BLANKS AND DO “ON YOUR OWN” #1 – 6**

VOCABULARY:

A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a number with integers as its square roots.

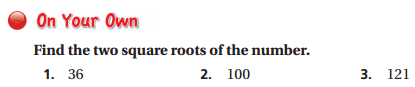
A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is this symbol, (It is used to represent a square root.

A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the number under the radical sign.

An \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the small number that is sitting on top of the radical sign.

FROM EXAMPLE 1:

|  |  |  |
| --- | --- | --- |
| Positive Square Root, | Negative Square Root, | Both Square Roots, |
|  |  |  |





Video to watch: [https://www.khanacademy.org/math/algebra/rational-exponents-and-radicals/alg1-radicals/v/introduction-to-square-roots](https://ex2010.sandi.net/owa/redir.aspx?C=aBhp8jPp5RaryWS9n_t-ZHacFtM_dFWLbJLECs5bFlXP1MOAmyjWCA..&URL=https%3a%2f%2fwww.khanacademy.org%2fmath%2falgebra%2frational-exponents-and-radicals%2falg1-radicals%2fv%2fintroduction-to-square-roots" \t "_blank)