**9.19.16 HOMEWORK –**

**Determine whether each of the following is rational or irrational.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  Rational | Irrational |
| 1. | $$-21$$ |  |   |
| 2. |  3  |  |   |
| 3. |  - 5 8 |  |   |
| 4. |  5. |  |  |

 |  |

**8.NS.A.1 Determine whether each of the following is finite or infinite.**

 5. – 1/5 a. finite b. infinite

 6. 13.2 a. finite b. infinite

 7.  a. finite b. infinite

8. Fill in the blanks with the first 10 perfect squares. (from least to greatest)

0, 1, \_\_\_\_, \_\_\_\_\_, 16, \_\_\_\_, \_\_\_\_\_\_, 49, \_\_\_, \_\_\_\_\_, 100

9. True or False. Perfect squares are Rational numbers.

10. **“X” the category(s) that describe the real number.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Real number** | **Rational** | **integer** | **Whole number** | **Natural number** | **irrational** |
| **Ex: 25** | **X** | **X** | **X** | **X** |  |
| **0.** |  |  |  |  |  |
| **0.8296** |  |  |  |  |  |
| **8/9**  |  |  |  |  |  |
| **7.895…** |  |  |  |  |  |
| √46 |  |  |  |  |  |
| **√81** |  |  |  |  |  |