Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hour \_\_\_\_ Date\_\_\_\_\_\_\_\_

**Perfect Squares Summative Assessment REVIEW**

No calculators or planners

1. Be able to define AND draw a “perfect square.”
   1. A number is called a **“perfect square”** if it \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. A drawing to represent a “perfect square” is
2. Be able to complete the following table:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Side Length of Square** | 1 | 2 | 3 |  | 5 |  | 7 | 8 |  |  | 11 | 12 |  |  |
| **Perfect Square Numbers**  **(Area of Square)** | 1 |  | 9 | 16 |  | 36 |  |  | 81 | 100 |  |  | 225 | 3,600 |

1. Are all the numbers in the above table rational or irrational? *Provide evidence for your response.*

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1. The inverse of taking the square root of a number is to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_the number.
   1. divide
   2. multiply
   3. square
   4. subtract
2. **Summary Writing Question:** What is the relationship between the **side length** of a square and its area? Provide an example to support your connections. Be able to write 4 – 5 sentences.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. If the area of a square is 25 units2, the length of one side of the square is \_\_\_\_\_ units. Therefore, the square root of 25 is \_\_\_\_\_. What is the relationship between the side length of a square and the square root of its area?

7) What is the symbol used for square root?