**Math 10-C Entire & Mixed Radicals Investigation Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Complete the table below given the information provided.

Each of the small squares below has an area of 2. The first one is completed for you.

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| **Total Area** | **Side Length** (written as an entire radical) | **Side Length** (written as a multiple of $\sqrt{2}$) |
| 2 units2 | $$\sqrt{2}$$ | 1$\sqrt{2}$ |
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Looking at the completed table we can see that there are two different ways to represent the ‘Side Length’. Try to describe the relationship between the two side length columns (hint: think factors). If you need more help seeing the relationship continue to the next page…

**If the following are true … *(verify with a calculator if you’d like)***

  

  



**then answer these…**

  

  

 