Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per.\_\_\_\_\_\_\_ Score:\_\_\_\_\_

U12 HW #1*Squares and Squares*

1. List the first 20 perfect square numbers.
2. What is the side length of a square with an area of 9 units2? A=s2

 Draw a picture and show the expression you use to solve.

1. What is the area of a square with a side length of 2 units? A=s2

 Draw a picture and show the expression you use to solve.

1. Complete the following table.

 Show work below.

|  |  |
| --- | --- |
| Area(square units) | Length of Side(units) |
| 4 |  |
|  | 10 |
| 2 |  |
|  | $$\sqrt{15}$$ |
|  | $$\sqrt{41}$$ |
|  | 1 |
|  | *s* |
| *A* |  |

1. **Simplify the following. Show ALL work and box final answer:**

**a.** $\sqrt{9}$ **b.** $\sqrt{100}$ **c.** $\sqrt{64}$

**d.** $\sqrt{4}$ **e.**$\sqrt{144}$ **f.** $\sqrt{81}$

 **g.** $\sqrt{400}$ **h.** $\sqrt{1600}$ **i.** $\sqrt{2500}$

 **j.** $\frac{\sqrt{14}}{2}$ **k.** $\frac{\sqrt{81}}{\sqrt{9}}$ **l. .** $\frac{\sqrt{64}}{\sqrt{121}}$