

**Directions:** In the table below, fill in the equations for the **Area** of a side (square), the **Surface Area** of a cube, and the **Volume** of a cube. Then, find the length of a side, area of a side, surface area, and volume for each of your scale models of the dice at 1x, 4x, 10x, and 40x. Work each problem out on the back of this sheet, and then record your answers in the chart. Don’t forget to include unit of measure for each answer.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Side** | **Area** | **Surface Area** | **Volume** |
| Formula |  |  |  |  |
| Cube at **1x** |  |  |  |  |
| Cube at **4x** |  |  |  |  |
| Cube at **10x** |  |  |  |  |
| Cube at **40x** |  |  |  |  |

**![C:\Users\kmccoy\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\WZ3MSHRD\MC900434389[1].wmf]()Think About It: ![C:\Users\kmccoy\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\WZ3MSHRD\MC900434389[1].wmf]()**

* What does ***Figure Drawn to Scale*** mean?
* What does ***Figure is NOT Drawn to Scale*** mean?