



Understanding Scale in 3D

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 <u>1x</u>				
Cube at <u>4x</u>				
Cube at <u>10x</u>				
Cube at <u>40x</u>				



Think About It:



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