**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Power – of – a – Power**

**Simplify the following. Circle your final answer.**

**Simplify the following using power-of-a-power and multiplication rules. Circle your final answer.**

1. The formula for finding the area of a square is , where ***s*** is the length of each side. If one side of the square is what is the area of the square in simplest form?
2. The formula for finding the volume of a cube is , where *e* is the length one side of the cube. Find the volume of the given cube below.