

**Name** \_\_\_\_\_

- 1) A view that includes the top and at least one side of the brick:
- 2) A view that includes the bottom and at least one inside side of the brick:
- 3) On a separate page, write out organized steps for the **surface area** in  $\text{cm}^2$  of the brick (there are many areas to account for!). Steps should start with the relevant area formula and then substituted lengths that you measure with a ruler or caliper. Any areas that are the same can be measured once and then multiplied by the number of times they occur. Present different parts of the brick labeled by region: the top and the bumps, the sides, and the bottom and interior areas. Explain when you are adding or subtracting areas. Thinking in terms of the orthographic projections of the brick will help you think about efficient ways to measure the areas. Present a total at the end.
- 4) On a separate page, follow the same guidelines as the above but to find the **volume** of the brick in  $\text{cm}^3$ .