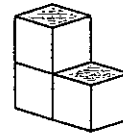


Enrichment Worksheet 11-7

Modeling with Cubes

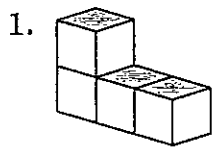
Some three-dimensional figures have irregular shapes, like the one shown at the right. When a problem involves a figure like this, you may find it helpful to model the figure using small cubes.



Volume =
3 cubic units

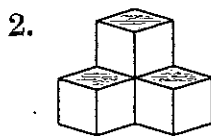
Surface Area =
14 square units

Find the volume and surface area of each figure.



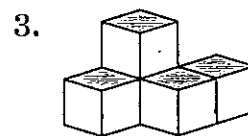
Volume =

Surface Area =



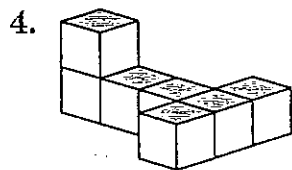
Volume =

Surface Area =



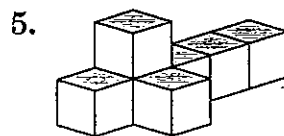
Volume =

Surface Area =



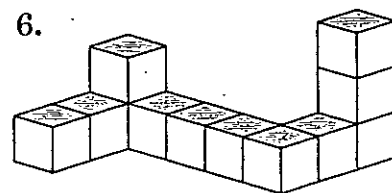
Volume =

Surface Area =



Volume =

Surface Area =



Volume =

Surface Area =

7. **CHALLENGE** There are five different three-dimensional figures that can be formed using four cubes. The volume of each figure, of course, is four cubic units. In the space at the right, sketch the one that has the least surface area.

