## SURFACE AREA, VOLUME, AND CAPACITY

Now that you have finished this chapter, you should be able to:


- Explain, using examples, the difference between volume and surface area.
- Explain, using examples and nets, the relationship between area and surface area.
- Estimate and calculate the surface area and volume of a three-dimensional object.
- Explain, using examples, the difference between volume and capacity.
- Convert a volume in one unit of measure, such as $\mathrm{cm}^{3}$, to another unit of measure, such as $\mathrm{m}^{3}$.
- Describe the relationship between the volumes of cones and cylinders with the same base and height.
- Describe the relationship between the volumes of pyramids and prisms with the same base and height.
- Explain the effect a change in dimensions of a three-dimensional object has on its surface area and volume.



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