**Lesson 5: Instructional Delivery: Volume**

We have dissected the formulas for volume. The work that was completed in the other lessons in this unit could be useful during this lesson.

Take a look at the following figures. What information is needed to find the volume of the figure?

4 in

![C:\Users\eligootee\AppData\Local\Microsoft\Windows\INetCache\IE\1K7AJRB3\katsioloudis7[1].png]()

2 in

4 in

4 ft

8 in

4 in

6 ft

4 ft

2 in

4 in

2 ft

8 ft

How can the missing dimensions of the objects be determined?

Try to divide the figures into other shapes, label the missing dimensions, and find the volume of each composite.

5 ft

What shapes is a propane tank composed of?

What formulas would be used to determine the volume?

1 ft

Find the volume of the propane tank. The length of the tank

is 5 feet, the radius of the tank is 1 foot.



What shapes is this composite solid composed of?

What formulas would you need in order to find the volume?

Calculate the volume for the composite figure.

**Instructional Delivery: Surface Area**

You have worked with finding the surface area of rectangular prisms, triangular prisms, pyramids, cones, and spheres. If you have a figure composed of two or more of those shapes could you determine the surface area of the figure?

Take a look at the figures. What formulas are needed to find the surface area of the figures? Are there any pieces that are not needed?

2 in

4 ft

4 in

4 in

8 in

6 ft

![C:\Users\eligootee\AppData\Local\Microsoft\Windows\INetCache\IE\1K7AJRB3\katsioloudis7[1].png]()

4 in

2 in

4 ft

2 ft

4 in

8 ft

How can the missing dimensions of the objects be determined?

Try to divide the figures into other shapes, label the missing dimensions, and find the surface area of each composite.

5 ft

What shapes is a propane tank composed of?

What formulas would be used to determine the surface area?

1 ft

Find the surface area of the propane tank. The length of the tank

is 5 feet, the radius of the tank is 1 foot.



What shapes is this composite solid composed of?

What formulas would you need in order to find the surface area?

Calculate the surface area for the composite figure?