A New Container

Task Statement 1

A juice company has commissioned you to create a new container design. The container should look different from others in order to stand out to customers—it could be a prism, a cone, a pyramid, a combination of more than one type of shape, or any three-dimensional geometric figure you can describe. Its volume must be 16 fluid ounces.

Once you create your design, you'll present it to the company. For your presentation you will need:

- a prototype of the container, or an image of what it will look like, showing the dimensions.
- calculations that prove the container will hold 16 fluid ounces.

Your mathematical work should be clear. Remember that you're explaining your design to people who may not be comfortable with math, so you'll need to help them understand how you got your results.

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Task Statement 2

A juice company has commissioned you to create a new container design. The container should look different from others in order to stand out to customers. It should be some combination of 2 different geometric shapes. Its volume must be 16 fluid ounces. One fluid ounce is approximately 29.57 cubic centimeters or about 1.80 cubic inches.

The company currently uses cans that are 6.19 inches tall (15.72 centimeters) and have a diameter of 2.43 inches (6.17 centimeters).

Once you create your design, you'll present it to the company. For your presentation you will need:

- a prototype of the container, or an image of what it will look like, showing the dimensions.
- calculations that prove the container will hold 16 fluid ounces.

Your mathematical work should be clear. Remember that you're explaining your design to people who may not be comfortable with math, so you'll need to help them understand how you got your results.