

# Geometry Homework

## Volume

Hwrk Volumes combined.doc (11-30-13)

Name \_\_\_\_\_

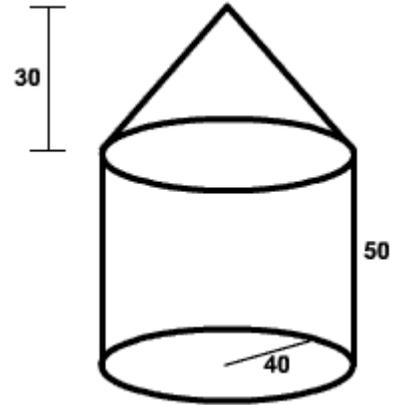
Calculate the following to three significant digits. I.e x.xxx

Grain bin with the following dimensions. Units are in feet.

What is the calculated volume? \_\_\_\_\_

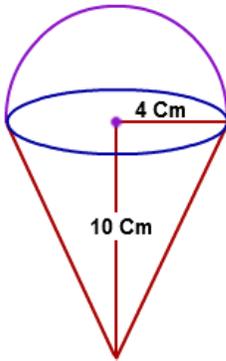
How many bushels could it hold? \_\_\_\_\_

How many pounds of corn? \_\_\_\_\_



Ice-cream cone with the following dimensions.

How many cubic Cm is the volume? \_\_\_\_\_



A cylinder in a cone.

How many cubic cm are in the cone? \_\_\_\_\_

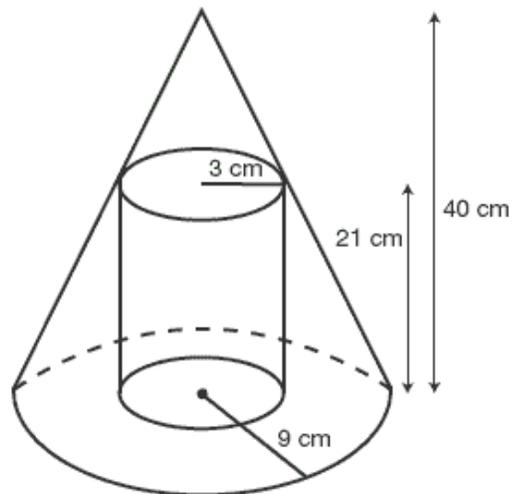
How many cubic cm are in the cylinder? \_\_\_\_\_

How many cubic inches are in the cone? \_\_\_\_\_

What is the included angle at the cone point? \_\_\_\_\_

How much would it weigh if the cone is solid steel? \_\_\_\_\_

How much would the cone weigh if it is solid aluminum? \_\_\_\_\_

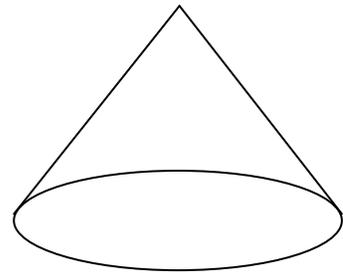


A pile of corn, in a cone shape, is 87 feet base diameter and 41 feet high, at the apex.

How many cubic feet are in the pile? \_\_\_\_\_

How many bushels of would that be? \_\_\_\_\_

How much should the pile weigh? \_\_\_\_\_



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What is the volume of the round bar 5" diameter x 8' in cubic inches? \_\_\_\_\_

If the bar is Steel how much is the calculated weight in pounds? \_\_\_\_\_

Is that light enough to haul in a Dodge pickup? Yes or No



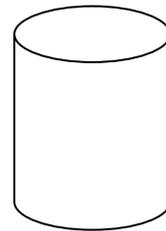
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A factory has a tank with a diameter of 36.25 feet and a length of 41 feet.

What is the calculated volume? \_\_\_\_\_

How many gallons is that? \_\_\_\_\_

How much would that much water weigh? \_\_\_\_\_



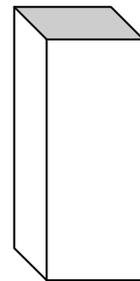
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A grain bin measures 33' long 22' wide and 69.5' tall.

How many cubic feet is inside? \_\_\_\_\_

How many bushels will it hold? \_\_\_\_\_

How much would that much corn weigh? \_\_\_\_\_



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We made a tank 62" x 43" x 9" tall.

How many cubic inches will it hold? \_\_\_\_\_

How many Gallons of water is that? \_\_\_\_\_

