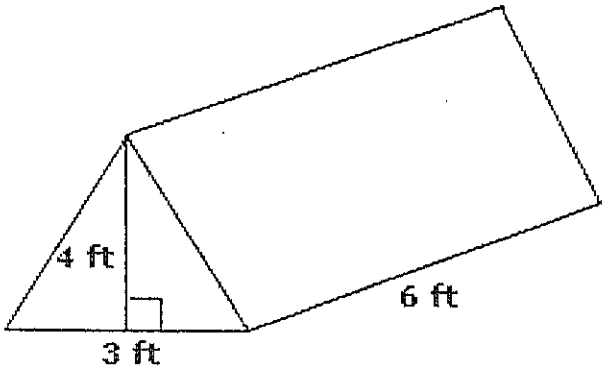
Find the surface area and volume of the following figure.

Identify the solid: _____



Name _____

Page _____ Unit 4

Surface Area and Volume

Rules:

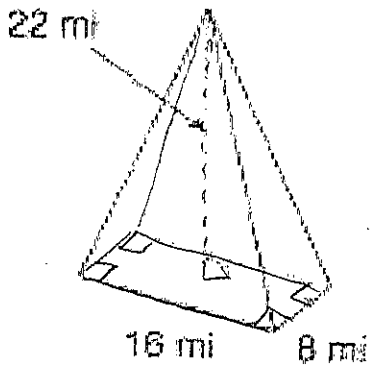
- Use reference sheet for formulas
- Round answers to hundredths place
- Show all of the work
- Use a calculator
- Don't forget the units!

Table of Contents

Example

Find the surface area and volume of the following figure.

Identify the solid: Rectangular Pyramid



Base = (16)(8)
= 128 mi^2

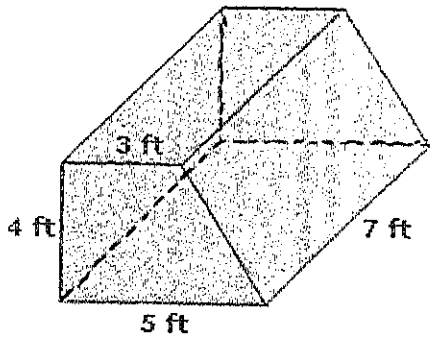
4 Δ faces = $4\left[\frac{bh}{2}\right] = 4\left[\frac{8(22)}{2}\right] = 4\left[\frac{176}{2}\right] =$

$4(88) = 352$

$352 + 128 = 480\ mi^2$

Find the surface area and volume of the following figure.

Identify the solid: _____



Michelle put her sister's birthday present in a box with a length of 13 mm, a width of 4mm, and a height of 8 mm. How much square millimeters of wrapping paper will Michelle need to completely cover the box

If the wrapping paper costs 2¢ per mm^2, how much will it cost Michelle to wrap her sister's present?

Volume $= \frac{1}{3}Bh$

***Remember that the capital B means area of the Base.

Be sure to put a box around your answer!

$V = \frac{1}{3}Bh$ Remember B = area of base

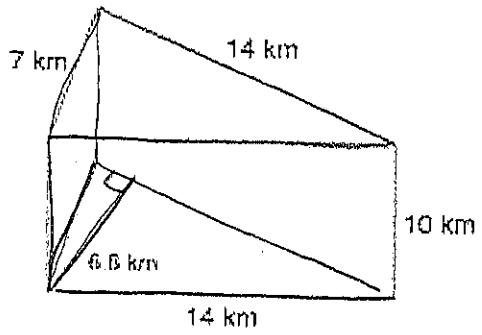
$\frac{1}{3}(16 \cdot 8)(22)$

$\frac{1}{3} \cdot \frac{128}{1} \cdot \frac{22}{1} = \frac{2816}{3} =$

$938.67\ m^3$

Find the surface area and volume of the following figure.

Identify the solid: _____



Find the surface area and volume of the following figure.

Identify the solid: _____