



MasterMath

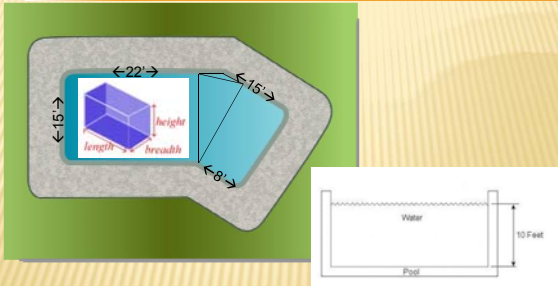


Geometry


VOLUME OF COMPOSITE SOLIDS



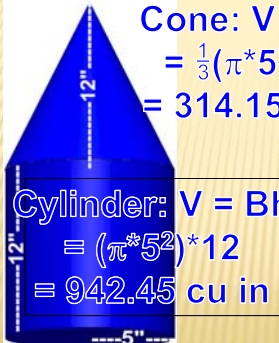
VOLUME OF COMPOSITE SOLIDS



1 Gallon = 7.48 cu. ft.



VOLUME OF COMPOSITE SOLIDS



Cone: $V = \frac{1}{3}Bh$
 $= \frac{1}{3}(\pi * 5^2) * 12$
 $= 314.15 \text{ cu in}$

Cylinder: $V = Bh$
 $= (\pi * 5^2) * 12$
 $= 942.45 \text{ cu in}$

Volume Formulas

Rectangular Prism = bwh

Triangular Prism = Bh


Cylinder = $\pi r^2 h$

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

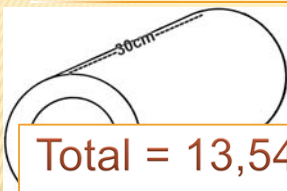
Cone = $\frac{1}{3}Bh$

B = area of base

Total V =
 $314.15 +$
 $942.45 =$
 1256.6 cu in



VOLUME OF COMPOSITE SOLIDS



Volume Formulas
 Rectangular Prism = bwh
 Triangular Prism = Bh
 Cylinder = $\pi r^2 h$
 Pyramid = $1/3Bh$
 Cone = $1/3Bh$

Total = 13,546.8 - 6,028.8 = 7518 cu cm

Large Cylinder:
 $V = 3.14 * 12^2 * 30 = 13,564.8 \text{ cu cm}$

Small Cylinder:
 $V = 3.14 * 8^2 * 30 = 6,028.8 \text{ cu cm}$

You Try


VOLUME OF COMPOSITE SOLIDS



Volume Formulas
 Rectangular Prism = bwh
 Triangular Prism = Bh
 Cylinder = $\pi r^2 h$
 Pyramid = $1/3Bh$
 Cone = $1/3Bh$
 B = area of base

You Try

VOLUME OF COMPOSITE SOLIDS



Volume Formulas
 Rectangular Prism = bwh
 Triangular Prism = Bh
 Cylinder = $\pi r^2 h$
 Pyramid = $1/3Bh$

Total = 276.32 + 330 = 606.32 cu in

Volume of semi-cylinder:
 $V = \frac{1}{2} \pi r^2 h = \frac{1}{2} * 3.14 * 4^2 * 11 = 276.32 \text{ cu in}$

Volume of prism:
 $V = bwh = 5 * 6 * 11 = 330 \text{ cu in}$

You Try

VOLUME OF COMPOSITE SOLIDS



Volume Formulas

- Rectangular Prism = bwh
- Triangular Prism = Bh
- Cylinder = $\pi r^2 h$
- Pyramid = $1/3Bh$
- Cone = $1/3\pi r^2 h$
- B = area of base

You Try It!

Total

$= 74,375 + 1,071,000$

$= 1,145,375 \text{ cu cm}$

Volume of rectangular prism

$70 * 85 * 180$

$= 1,071,000 \text{ cu cm}$

Volume of triangular prism:

$V = (1/2 * 25 * 70) * 85$

$= 74,375 \text{ cu cm}$

VOLUME OF COMPOSITE SOLIDS

Now, try it on your own. Go to

www.MasterMath.info

download

[Volume of Composite Solids](#)

from the Worksheets Page, and test your skill. Then see how much you understand by taking the Subject Quiz
