Volume

a) $V = A_{base} \times H$

$= \pi r^2 \times H$

$= (3.14)(9)^2 \times 4$

$= (3.14)(81) \times 4$

$= 1017.36 \text{ cm}^3$

$\underline{\times 2}$

2034.72 cm^3

2034.72

$\underline{+ \quad 32}$

2066.72 cm^3

$V = A_{base} \times H$

$= L \times w \times H$

$= 8 \times 2 \times 2$

$= 32 \text{ cm}^3$

$$+ \quad 32$$
$$\overline{2066.72 \text{ cm}^3}$$

b) $V = A_{base} \times H$

$\quad = \pi r^2 \times H$

$\quad = (3.14)(1.5)^2 \times 4$

$\quad = (3.14)(2.25) \times 4$

$\quad = 28.26 \text{ cm}^3$

$V = A_{base} \times H$

$\quad = L \times w \times H$

$\quad = 10 \times 9 \times 9$

$\quad = 810 \text{ cm}^3$

$$\quad 28.26$$
$$+ 810$$
$$\overline{838.26 \text{ cm}^3}$$

c) $V = A_{base} \times H$

$V = \pi r^2 \times H$

$= (3.14)(4)^2 \times 5$

$= (3.14)(16) \times 5$

$= 251.2 \ cm^3$

$\underline{\times 3}$

$753.6 \ cm^3$

$V = A_{base} \times H$

$= L \times w \times H$

$= 36 \times 8 \times 8$

$= 2304 \ cm^3$

$$\begin{array}{r} 753.6 \\ +\ 2304 \\ \hline 3057.6 \ cm^3 \end{array}$$

d) $V = A_{base} \times H$

$= \pi r^2 \times 22$

$= (3.14)(6)^2 \times 22$

$= 3.14(36) \times 22$

$= 2486.88$

$\underline{\div 2}$

$1243.44 \, m^3$

$V = A_{base} \times H$

$= L \times W \times H$

$= 12 \times 22 \times 6$

$= 1584 \, m^3$

1243.44

$\underline{+ 1584}$

$2827.44 \, m^3$

Hilroy

2) $V = A_{base} \times H$

$ = \dfrac{b \times h}{2} \times H$

$ = \dfrac{8 \times 6}{2} \times 9$

$ = \dfrac{48}{2} \times 9$

$ = 24 \times 9$

$ = 216\, cm^3$

$V = A_{base} \times H$

$ = L \times W \times H$

$ = 6 \times 9 \times 5$

$ = 270\, cm^3$

$$\begin{array}{r} 216\, cm^3 \\ 270\, cm^3 \\ \hline 486\, cm^3 \end{array}$$

1) $V = A_{base} \times H$

$= \pi r^2 \times H$
$= (3.14)(2)^2 \times 14$
$= (3.14)(4) \times 14$
$= 175.84 \text{ cm}^3$
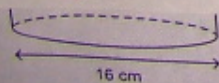
$V = A_{base} \times H$

$= \pi r^2 \times H$
$= (3.14)(6)^2 \times 4$
$= (3.14)(36) \times 4$
$= 452.16 \text{ cm}^3$

$\begin{array}{r} 175.84 \\ + 452.16 \\ \hline 628. \text{ cm}^3 \end{array}$

Hilroy

16 cm

18 cm

g. $V = A_{base} \times H$

$= L \times w \times H$

$= 4 \times 4 \times 4$

$= 64 \ cm^3$

$V = A_{base} \times H$

$= \dfrac{b \times h}{2} \times H$

$= \dfrac{12 \times 9}{2} \times 5$

$= \dfrac{108}{2} \times 5$

$= 54 \times 5$

$= 270 \ cm^2$

$V = 64$

$+270$

$\boxed{334 \ cm^3}$

h) $V = A_{base} \times H$

     $= L \times W \times H$

     $= 8 \times 8 \times 8$

     $= 512$

       X 2

     $1024 \ cm^3$

$V = A_{base} \times H$
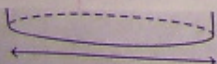
     $= L \times W \times H$

     $= 2 \times 1 \times 9$

     $= 18 \ cm^3$

$\begin{array}{r} 1024 \\ 18 \\ \hline 1042 \ cm^3 \end{array}$

Hilroy

18 cm

i) $V = A_{base} \times H$

$= L \times W \times H$
$= 4 \times 4 \times 8$
$= 128\,cm^3$

$V = A_{base} \times H$

$= \pi r^2 \times H$
$= (3.14)(8)^2 \times 6$
$= (3.14)(64) \times 6$
$= 1205.76$

$\begin{array}{r} 128 \\ + 1205.76 \\ \hline 1333.76 \end{array}\,cm^3$

j) $V = A_{base} \times H$

$= \dfrac{b \times h}{2} \times H$

$= \dfrac{6 \times 6 \times 7}{2}$

$= \dfrac{36 \times 7}{2}$

$= 18 \times 7$

$= 126$

$\underline{\times 2}$

252

$V = A_{base} \times H$

$= L \times \omega \times H$

$= 6 \times 6 \times 7$

$= 252$

252
$\underline{252}$
504 cm^3