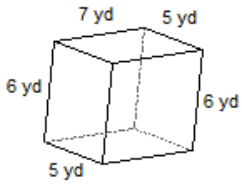
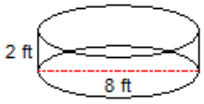
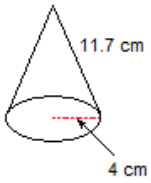
Find the surface area of each.





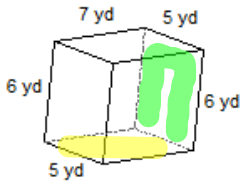


SA = total area of all faces

$SA = \pi r^2 + \pi rs$

$SA = 2\pi r^2 + 2\pi rh$

Find the surface area of each.



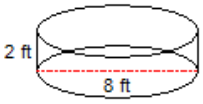
SA = total area of all faces

Top/Bottom	Front / Back	Side/Side
A= l x w	A= l x w	A= l x w
= 5 x 7	= 6 x 5	= 6 x 7
= 35 x2	= 30 x2	= 42 x2
70	60	84

SA = total area of all faces

SA = 70 + 60 + 84

= 214 yd^2



SA = $2\pi r^2$ + $2\pi rh$

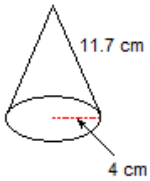
SA = $2(3.14)(4)^2$ + $2(3.14)(4)(2)$

SA = $2(3.14)(16)$ + $2(3.14)(4)(2)$

SA = $2(3.14)(16)$ + $2(3.14)(4)(2)$

SA = 100.48 + 50.24

SA = 150.72 ft^2



SA = πr^2 + πrs

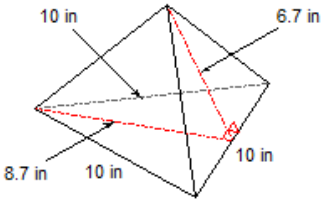
SA = $(3.14)(4)^2$ +$(3.14)(4)(11.7)$

SA = $(3.14)(16)$ +$(3.14)(4)(11.7)$

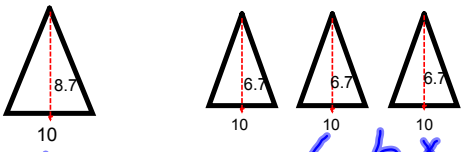
SA = 50.24 +146.952

SA =197.192 cm^2

Determine the Surface Area



Faces:



$\frac{b \times h}{2}$ $\quad 3\left(\frac{b \times h}{2}\right)$

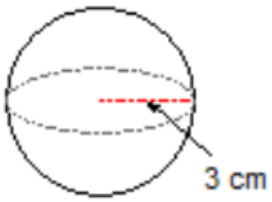
$\frac{10 \times 8.7}{2}$ $\quad 3\left(\frac{10 \times 6.7}{2}\right)$

$= 43.5 \text{ in}^2$ $\quad = 3(33.5)$

$= 100.5 \text{ in}^2$

Total Surface Area

$43.5 + 100.5 = 144 \text{ in}^2$



$SA_{(Sphere)} = 4\pi r^2$

$= 4\pi(3)^2$

$= 4\pi(9)$

$= 113.1 cm^2$