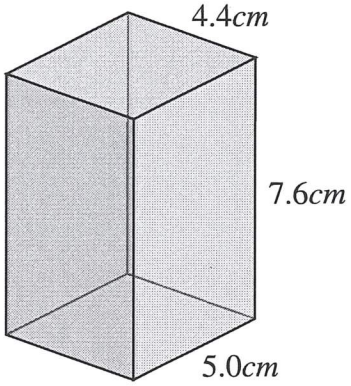
S.A. $2(HL+LW+WH)$ Vol $L \times W \times H$

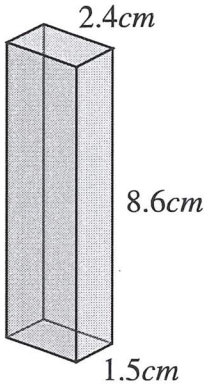
Volume and surface area of prisms (B)

Find the volume and surface area of each prism.



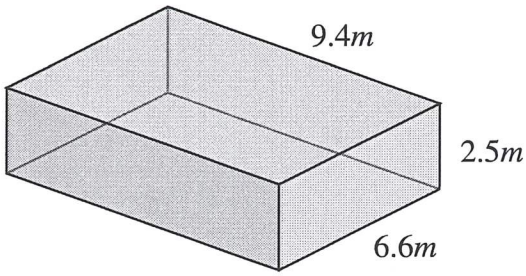
V: _____

SA: _____



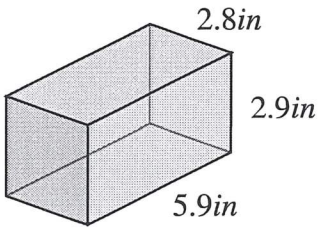
V: _____

SA: _____



V: _____

SA: _____



V: _____

SA: _____

S.A. $bH + L(a+b+c)$ Vol: $\frac{1}{2}bLh$

Triangular Prisms (B)

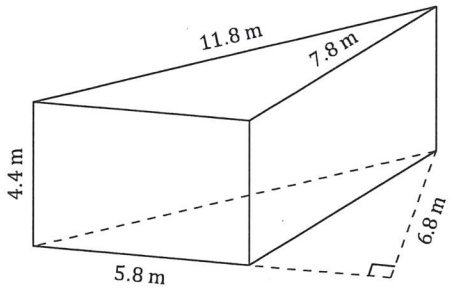
Name: _____ Date: _____

Calculate the volume and surface area of each triangular prism.

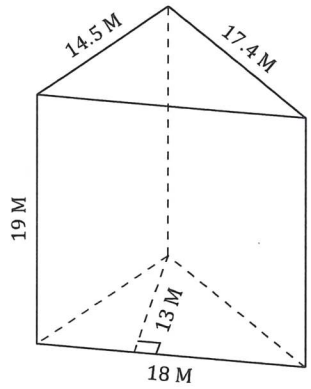
Volume is equal to the Area of the Base × the Prism Length = $0.5 \times b \times h \times l$

Surface Area is equal to the Perimeter of the Base × the Prism Length + Twice the Area of the Base = $(P \times l) + (b \times h)$

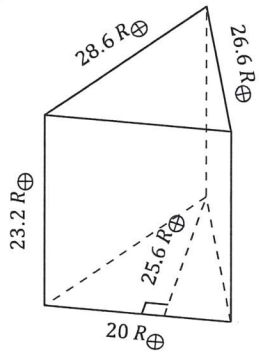
1.



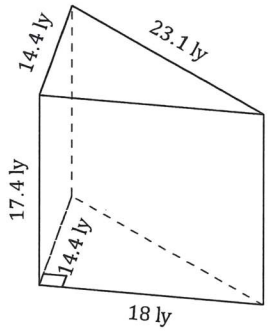
2.



3.



4.

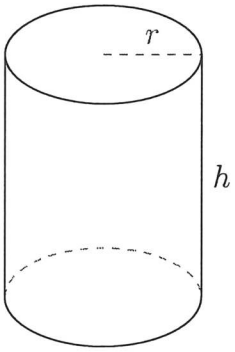


Area and Volume of Cylinders (B)

Calculate the surface area and volume for each cylinder.

Surface Area $= (\pi r^2 \times 2) + (\pi d \times h)$ Volume $= \pi r^2 \times h$ $d = 2r$

1.

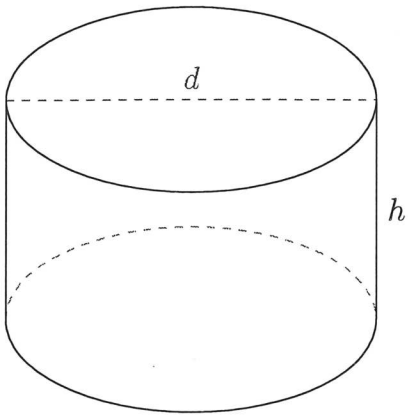


$r = 1.3$ AU $h = 3.2$ AU

Surface Area =

Volume =

2.

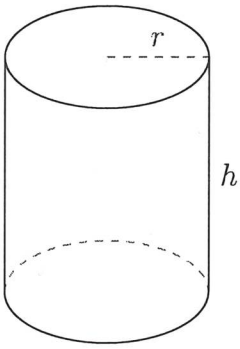


$d = 4.9$ yd $h = 2.9$ yd

Surface Area =

Volume =

3.

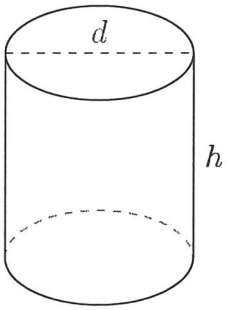


$r = 1.35$ yd $h = 3.1$ yd

Surface Area =

Volume =

4.



$d = 2.5$ in $h = 2.7$ in

Surface Area =

Volume =