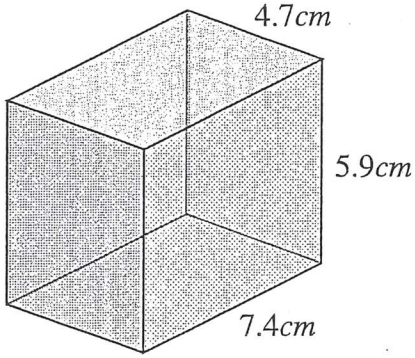
Volume and surface area of prisms (A)

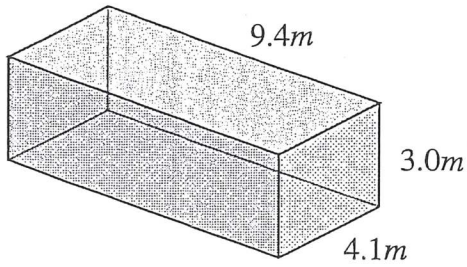
Find the volume and surface area of each prism.

S.A.
2 (HL+LW+WH)
VOL
L x W x H



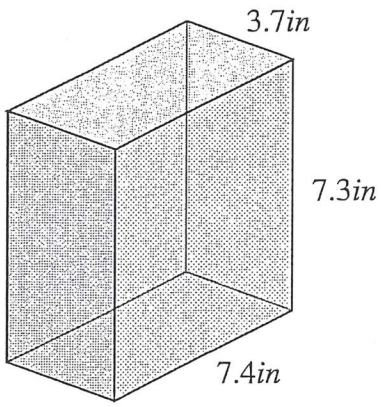
V: _____

SA: _____



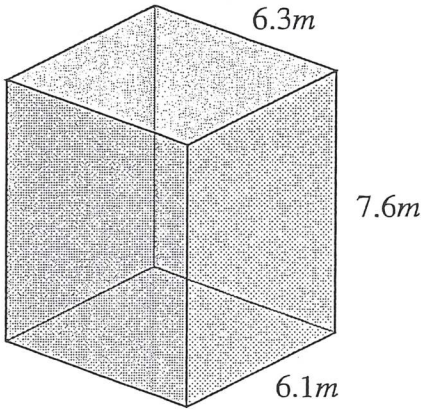
V: _____

SA: _____



V: _____

SA: _____



V: _____

SA: _____

Triangular Prisms (A)

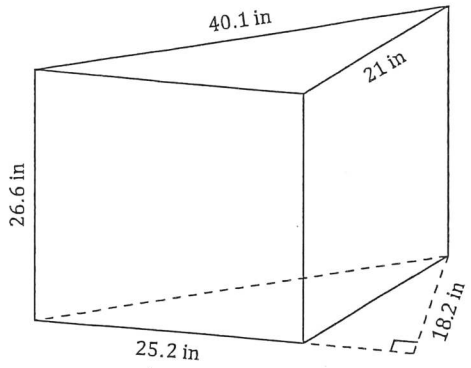
Name: _____ Date: _____

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 = $(P \times l) + (b \times h)$

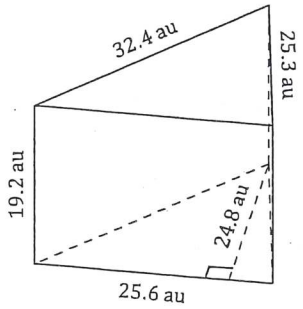
1.



S.A. _____

Volume _____

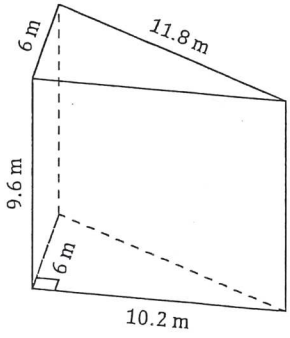
2.



S.A _____

VOLUME _____

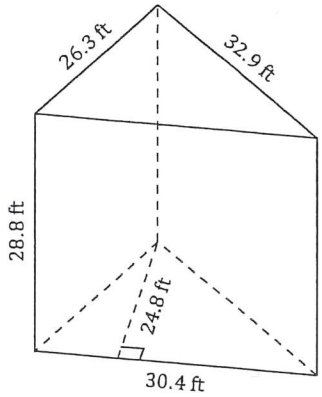
3.



S.A _____

Volume _____

4.



S.A. _____

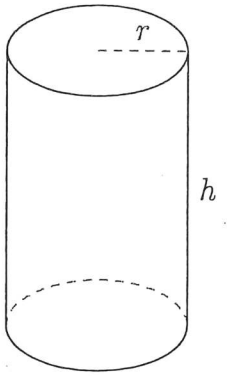
Volume _____

Area and Volume of Cylinders (A)

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.

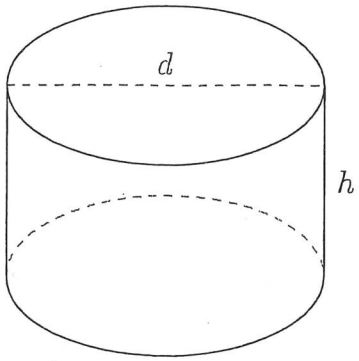


$r = 1.2$ km $h = 3.6$ km

Surface Area =

Volume =

2.

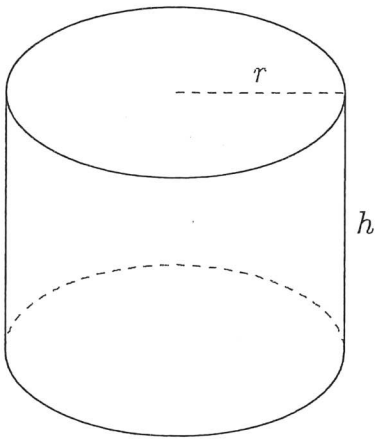


$d = 12.6$ cm $h = 7.5$ cm

Surface Area =

Volume =

3.

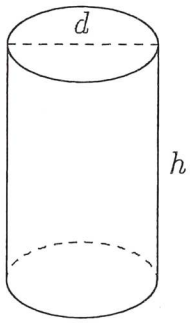


$r = 18$ ft $h = 27.2$ ft

Surface Area =

Volume =

4.



$d = 12$ m $h = 18.6$ m

Surface Area =

Volume =