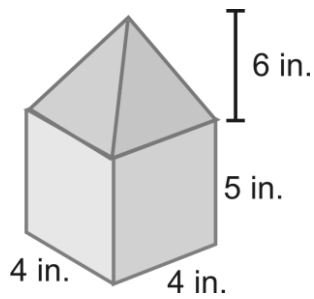


1. Determine the **surface area** of each composite shape to the nearest tenth of a square unit.

A).



SA of Prism: 112 in^2

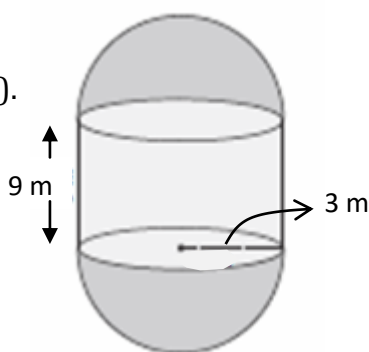
SA of Pyramid: 66.4 in^2

Overlap: 32 in^2

Composite SA: 146.4 in^2

* need slant height
 $s = 6.3 \text{ in}$

B).



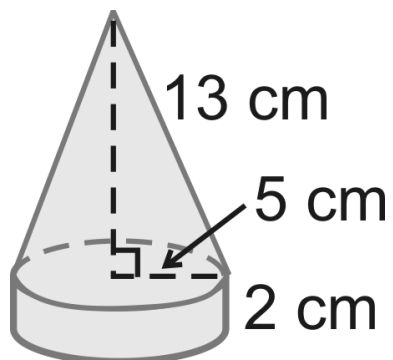
SA of Sphere: 113.04 m^2

SA of Cylinder: 169.56 m^2

Overlap: 56.52 m^2

Composite SA: 226.08 m^2

C).



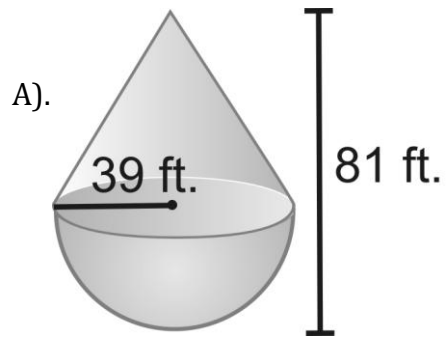
SA of Cone: 282.6 cm^2

SA of Cylinder: 219.8 cm^2

Overlap: 157 cm^2

Composite SA: 345.4 cm^2

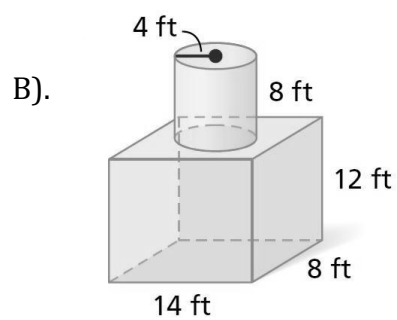
2. Determine the **volume** of each composite shape to the nearest tenth of a cubic unit.



V of Hemisphere: 124174.44 ft^3

V of Cone: 66863.16 ft^3

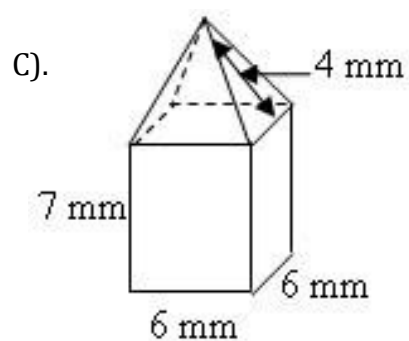
Composite V: 191037.64 ft^3



V of Cylinder: 401.92 ft^3

V of Prism: 1344.16 ft^3

Composite V: 1745.92 ft^3



V of Pyramid: 31.2 mm^3

V of Prism: 252 mm^3

Composite V: 283.2 mm^3

* need height of pyramid
 $h = 2.6 \text{ mm}$