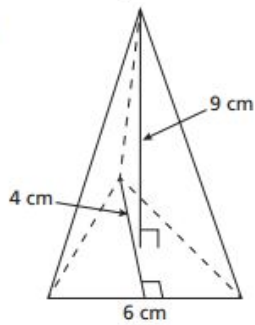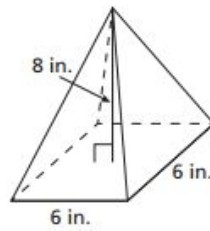**First look for the formulas for these shapes.** Book, Student Journal or Google search will do the trick. Then try to find the volumes or surface areas.
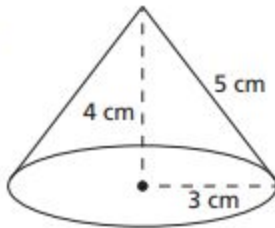
Find the volume of each pyramid.

1.

9 cm

4 cm

6 cm

2.

8 in.

6 in.

6 in.

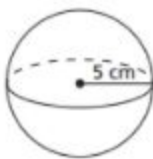Find the Volume and Surface Area of each cone.

1.

5 cm

4 cm

3 cm

2. A right cone has a diameter of 1.8 inches and a height of 3 inches.
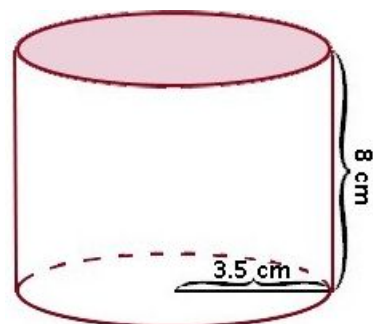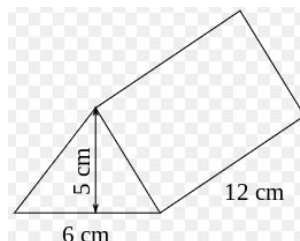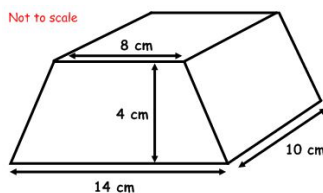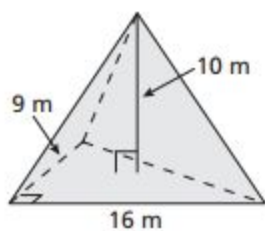
Find the Volume and Surface Area of each Sphere.

1.

5 cm

2.

9 in.

Find the Volume of each Prism/Cylinder.
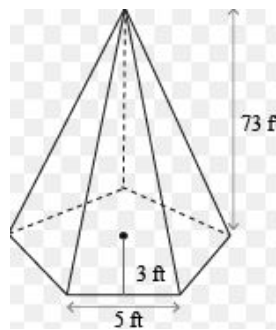
Not to scale

8 cm

4 cm

14 cm

10 cm

5 cm

6 cm

12 cm

8 cm

3.5 cm

Now it's time to practice.
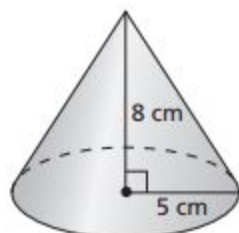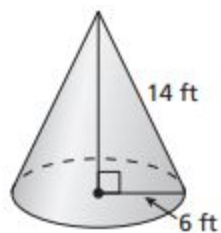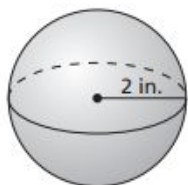Find the volume of each shape.

1.

10 m
9 m
16 m

2.

15 in.
13 in.

73 f
3 ft
5 ft

Find the volume and surface area of each shape.

14 ft
6 ft

8 cm
5 cm

1.

2 in.

2.

10 mm

3.

$C = 8\pi$ ft

8 ft
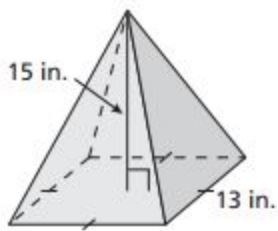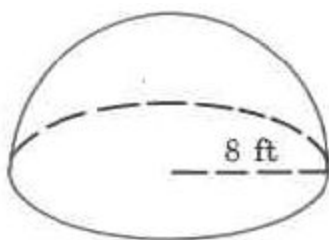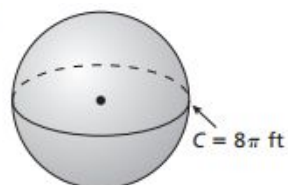
Find the volume of each composite shape.

7 in.
4 in.
15 in.

8.

5 cm
8 cm
13 cm
5 cm

11.

9 cm
18 cm
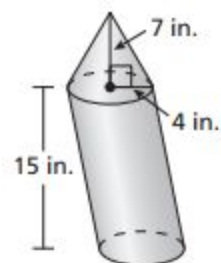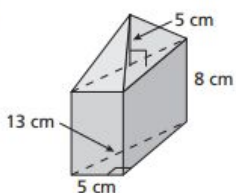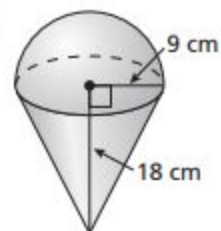
Formulas

<u>Prism</u>

V = Bh

SA = Find the area of all faces

<u>Pyramid</u>

V = $\frac{Bh}{3}$

SA = Find the area of all faces

<u>Cone</u>

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

V = $\frac{Bh}{3}$

<u>Sphere</u>

V = $\frac{4}{3}\pi r^3$

SA = $4\pi r^2$

<u>Cylinder</u>

V = Bh

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