1) Body diagonal

2) Base , Height

3) Surface area = 216 cm^2
Volume = 216 cm^3

Face diagonal = $6\sqrt{2}$ cm

Body diagonal = $6\sqrt{3}$ cm

4) Radius of the sphere = 3 units.

5) Volume of the cone V = $100\pi\,inch^3$

6) Height of the cone = 8 inches.

7) Volume of the sphere = $\frac{539}{3}cm^3$
Surface area = $154\,cm^2$
Surface area of the sphere = $154\,cm^2$

8) Volume of the sphere = $288\pi\,m^3$
Surface area of the sphere = $144\pi\,m^2$

9) Volume of the prism = 24 x 7 = $168\,cm^3$
Surface are of the given prism = 216 cm^2

10) Volume of the sphere = $36\pi\,cm^3$

11) Volume of the given figure = $112\pi\,inch^3$

12) Radius of the sphere = 6 cm.