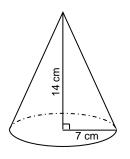
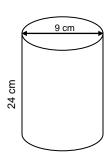
For each of the problems in this exercise, round your answers to 2 decimal places.

1. Calculate the volume and surface area of each object.

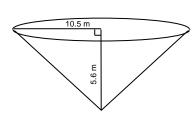
a)



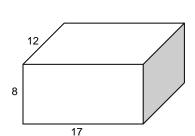
b)



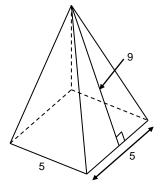
c)



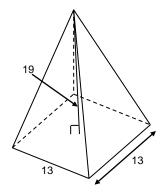
d)



e)



f)



- 2. Calculate the volume and surface area of each cone.
 - a) diameter 25 mm, height 30 mm
- b) radius 6.8 m, height 7.4 m
- 3. If a cylinder has a radius of 3.4 m, calculate the volume and surface area for each of the given heights.
 - a) 3.4 m
- b) 10.0 m
- c) 6.3 m
- d) 1.3 m
- 4. A cylinder has a volume of 500 and a height of 25. Determine its diameter.
- 5. A cylinder has a volume of 350 and a height of 7. Determine its surface area.

Answers:

- 1. a) 718.38 cm^3 ; 498.15 cm^2
- b) 1526.81 cm³; 805.82 cm²
- c) 646.54 m³; 738.90 m²

d) 1632;872

- e) 72.05; 115.00
- f) 1070.33; 691.11

2. a) 4908.74 mm³; 1767.15 mm²

b) 358.33 m³; 359.96 m²

3. a) 123.48 m^3 ; 145.27 m^2

b) 363.17 m^3 ; 286.26 m^2

c) 228.80 m^3 ; 207.22 m^2

d) 47.21 m^3 ; 100.41 m^2

4. 5.05

- 5. 275.46
- 5. a) 52.36%
- b) 52.36%