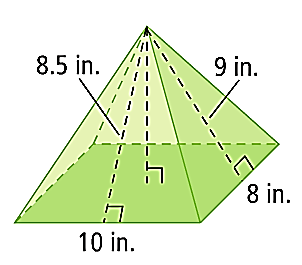
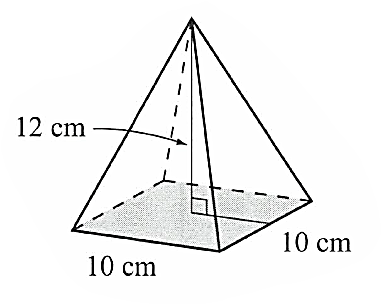
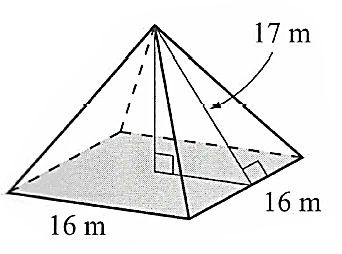
FPC 10 2.2b Surface Area of Pyramids, Cones & Spheres

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Blk\_\_\_\_\_

1. Calculate the surface area of each of the following pyramids.

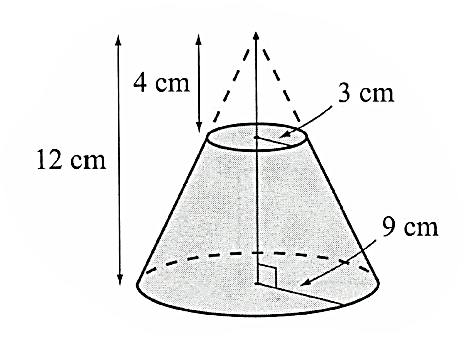


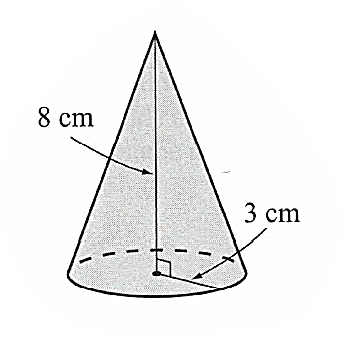


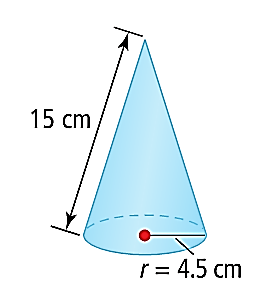


a) b) c)

1. Calculate the surface area of each of the following cones.

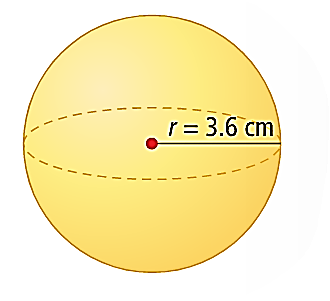






a) b) c)

1. Calculate the surface area of the sphere.



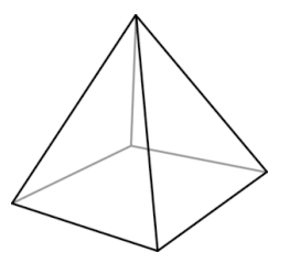
1. A conical paper cup has a diameter of 6 cm and a height of 7 cm. How many square centimetres of paper are needed to make the cup?
2. Earth has a diameter of approximately 13 000 km. Land forms about 29 percent of the surface of the Earth. Assume Earth is a sphere. Estimate the area of land on Earth.



1. Photographers often use a light tent to get the best lighting for items they photograph for museums, catalogues, or online sales. This tent is cylindrical with a conical roof. The diameter of the tent is 1 m, the height of the tent is 190 cm, and the cylindrical wall of the tent is 135 cm high. What is the surface area of the light tent, to the nearest tenth of a square metre?
2. For each of the following, the surface are is given. Calculate the missing dimension.

a) SA = 91.4 m2 b) SA = 741.4 cm2 c) SA = 1475 m2

16 cm

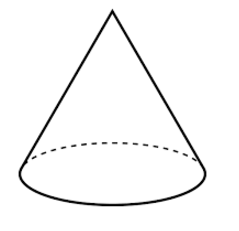


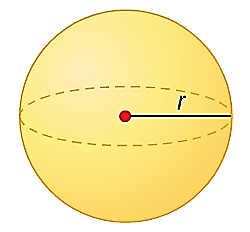
**s**

25 m

25 m

**s**





**Answers:**

**1**a. 800 m2 b. 360 cm2 c. 237 in2 2a. 276 cm2 b. 109 cm2 c. 660 cm2 3. 163 cm2 4. 72 cm2 5. 153 969 450 km2

6. 5.4 m2 7a. 2.7 m b. 21.5 cm c. 17 m