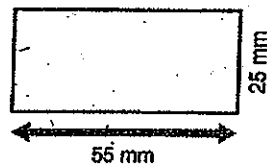


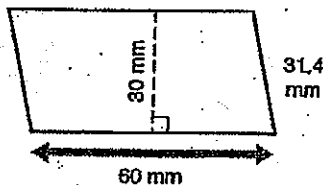
EXERCISES 10.2

Use the value of π from your calculator or $\pi \approx 3.1416$ to compute the perimeter or circumference to the nearest millimeter and the area to the nearest square millimeter of each figure in exercises 13 to 18. Then determine each area to the nearest .01 square centimeter. (*Hint:* In some cases the Pythagorean theorem will be needed to find the length of a side or hypotenuse of a right triangle, see section 6.4.)

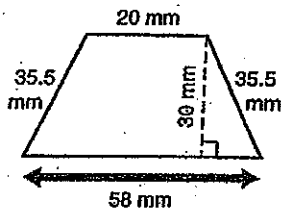
13. a. Rectangle



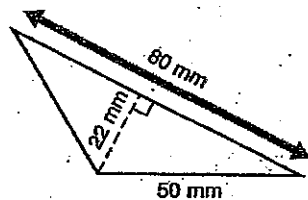
b. Parallelogram



14. a. Trapezoid

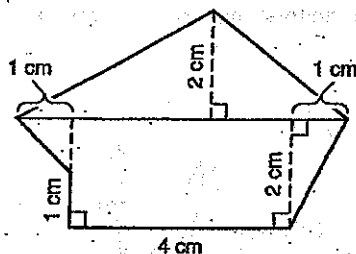


b. Scalene triangle

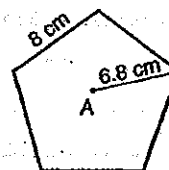


The area of a polygon can be found by subdividing it into smaller regions. Use this principle to find the area of the polygons in exercises 19 and 20 to the nearest .1 square centimeter.

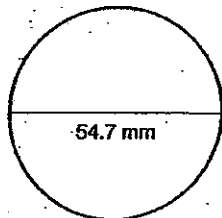
19.



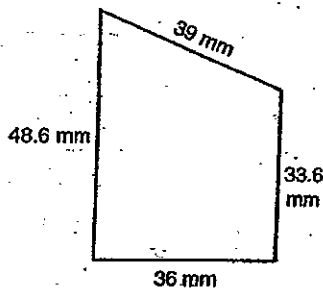
20. Regular pentagon with center A



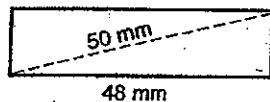
15. a. Circle



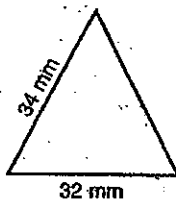
b. Trapezoid



18. a. Rectangle



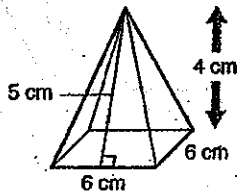
b. Isosceles triangle



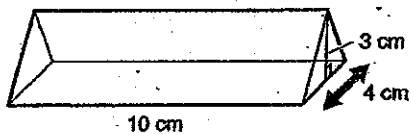
EXERCISES 10.3

Compute the volumes of the figures in 7 through 12 to the nearest cubic centimeter, and compute their surface areas to the nearest square centimeter.

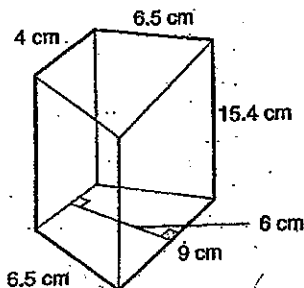
7. a. Square pyramid



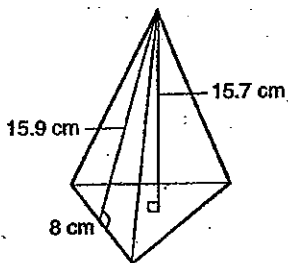
b. Triangular isosceles prism



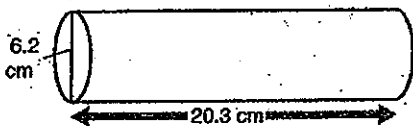
11. a. Trapezoidal prism



b. Equilateral triangular pyramid



12. a. Cylinder



Compute the volumes to the nearest .1 cubic centimeter for the figures in exercises 13 and 14.

13. a. Cone

