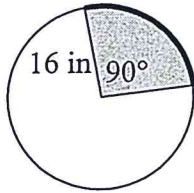


# Arc Length-Sector Area

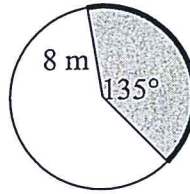
Name: \_\_\_\_\_

8. Calculate the sector area:

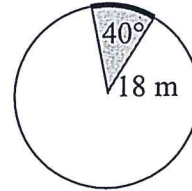
a.



b.



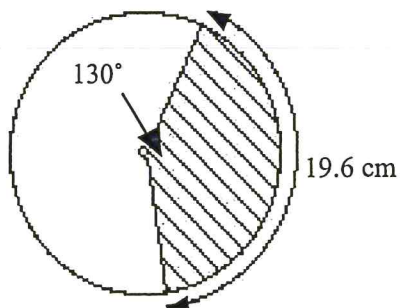
c.



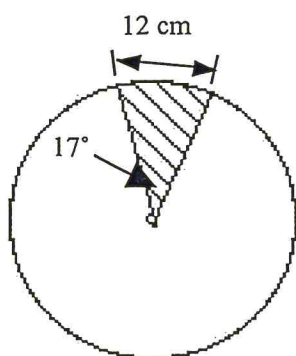
9. The area of a circle is  $225\pi$  square inches. Find the area of the sector whose central angle is  $45^\circ$ .
10. The central angle of a sector is  $60^\circ$  and the area of the circle is  $144\pi$ . What is the area of the sector?
11. A circle has a radius of 12. Find the area of the sector whose central angle is  $120^\circ$ .
12. Find the radius of a circle which has a sector area of  $9\pi$  whose central angle is  $90^\circ$ .
13. The central angle of a sector is  $72^\circ$  and the sector has an area of  $5\pi$ . Find the radius.
14. Find the measure of the central angle of a sector if its area is  $5\pi$  and the radius is 6.

Find the radius. Round the nearest tenth.

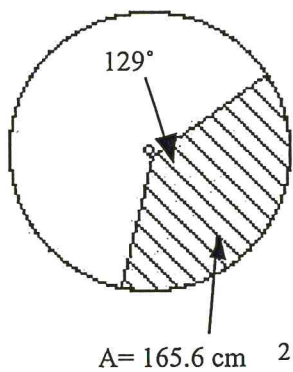
5.




6.




7.




8.

