

# Area of Circles and Sectors

**Find the area of each. Use your calculator's value of  $\pi$ . Round your answer to the nearest tenth.**

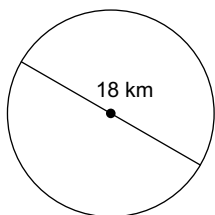
1) radius = 2 in

2) radius = 11 m

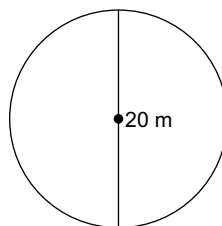
3) diameter = 14 in

4) diameter = 22.4 mi

5)

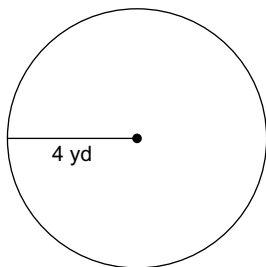


6)

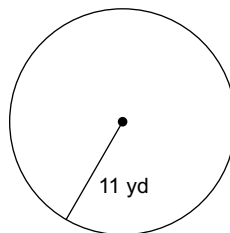


**Find the area of each.**

7)



8)

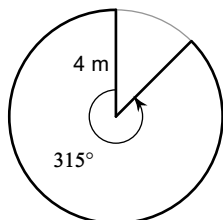


9) diameter = 6 km

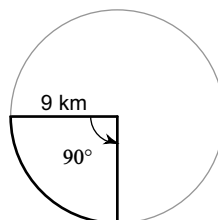
10) diameter = 16 mi

**Find the area of each sector.**

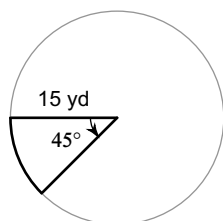
11)



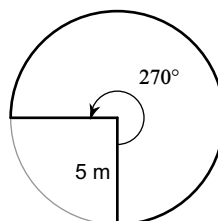
12)



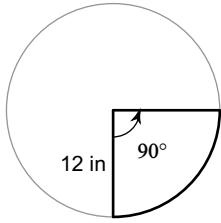
13)



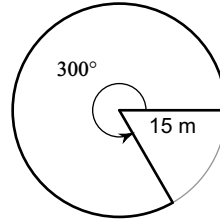
14)



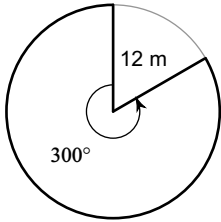
15)



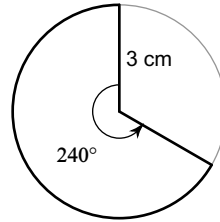
16)



17)



18)



**Find the radius of each circle.**

19) area =  $144\pi$  km<sup>2</sup>

20) area =  $16\pi$  m<sup>2</sup>

**Find the radius of each circle. Use your calculator's value of  $\pi$ . Round your answer to the nearest tenth.**

21) area = 172 cm<sup>2</sup>

22) area = 128.7 km<sup>2</sup>

**Find the diameter of each circle.**

23) area =  $64\pi$  in<sup>2</sup>

24) area =  $36\pi$  cm<sup>2</sup>

**Find the diameter of each circle. Use your calculator's value of  $\pi$ . Round your answer to the nearest tenth.**

25) area = 50.3 ft<sup>2</sup>

26) area = 314.2 m<sup>2</sup>