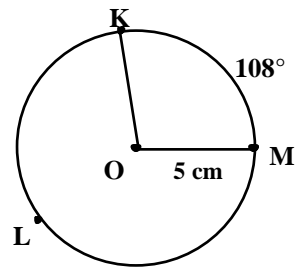


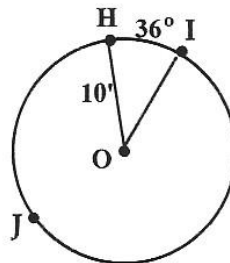
Throughout this worksheet, leave your answer in terms of  $\pi$ .  
 For #1-6, use the given information to find the circumference of the circle.

1. radius is 13 ft
2. radius is 7 in
3. diameter is 12 m
4. radius is 11 ft
5. diameter is 8 m
6. radius is 9 in

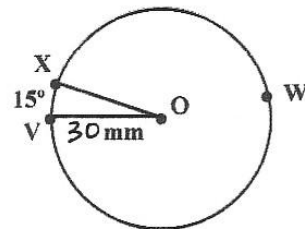
7. Find the length of  $KM$ . Leave your answer in terms of  $\pi$ .



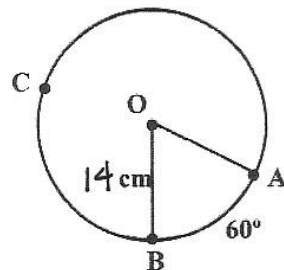
8. Find the length of  $HI$ . Leave your answer in terms of  $\pi$ .



9. Find the length of  $VX$ . Leave your answer in terms of  $\pi$ .



10. Find the length of  $AB$ . Leave your answer in terms of  $\pi$ .



(over)

11. Find the length of a  $72^\circ$  arc for a circle with 11 m radius. Leave your answer in terms of  $\pi$ .

12. Find the length of a  $20^\circ$  arc for a circle with 10 ft radius. Leave your answer in terms of  $\pi$ .

13. Find the length of a  $100^\circ$  arc for a circle with 15 in radius. Leave your answer in terms of  $\pi$ .

14. Find the degree measure of an arc of length  $35\pi$  in with radius 45 in.

15. Find the degree measure of an arc of length  $\frac{40\pi}{3}$  m with radius 15 m.

16. Find the degree measure of an arc of length  $\frac{25\pi}{2}$  cm with radius 25 cm.