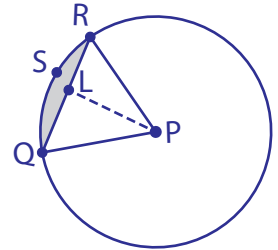


## Area of a segment

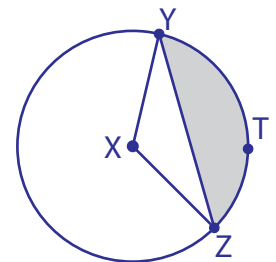
Round the answers to two decimal places.

- 1) In the figure,  $\angle P = 68^\circ$ ,  $\overline{QR} = 20$  in,  $\overline{PL} = 15$  in and  $\overline{PQ} = 18$  in. Find the area of the shaded segment.



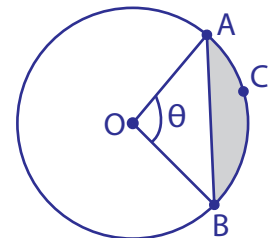
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- 2) A chord drawn on a circle is of length 30 ft and is at a distance of 8 ft from the center which subtends an angle  $124^\circ$  with radii.



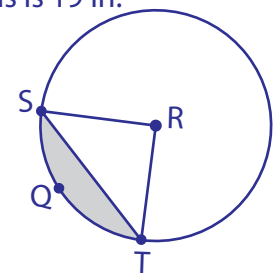
\_\_\_\_\_

- 3) If the radius of the circle is 10 yd and the length of the chord is 27 yd and  $\theta = 98^\circ$ . Find the area of the shaded segment.



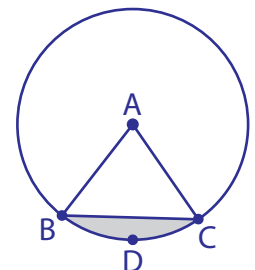
\_\_\_\_\_

- 4) Find the area of a segment of a circle whose radius is 19 in. and the length of the chord is 18 in.



\_\_\_\_\_

- 5) Find the area of the segment of a circle whose radius and central angle are 5 ft and  $74^\circ$  respectively. Also the base and height of a triangle are 6 ft and 4 ft respectively.



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