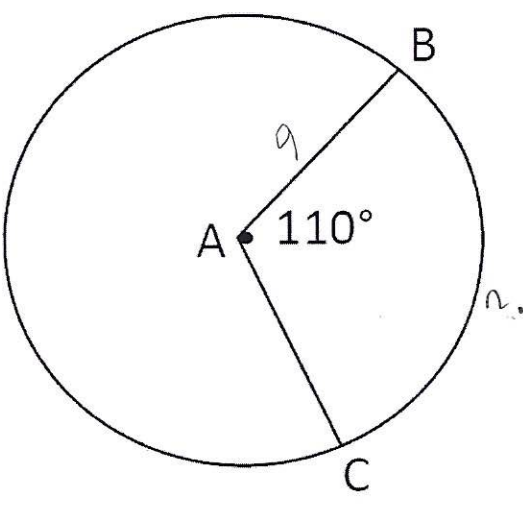


- 1) $A = \pi r^2$
- 2) $\frac{81\pi}{\pi} = \frac{\pi r^2}{\pi}$
- 3) $81 = r^2$
- 4) $\sqrt{81} = \sqrt{r^2}$
- 5) $9 = r$
- 6) $C = \pi d$
- 7) $C = 18\pi$

28. Circle A has an area of 81π . What is the length of arc BC?

- F. 5.5π
- G. 8π
- H. 24.75π
- J. 81π
- K. 324π



The ACT

8) $\frac{110}{360} = \frac{L}{18\pi}$

9) $360L = 110(18\pi)$

10) $360L = 1980\pi$

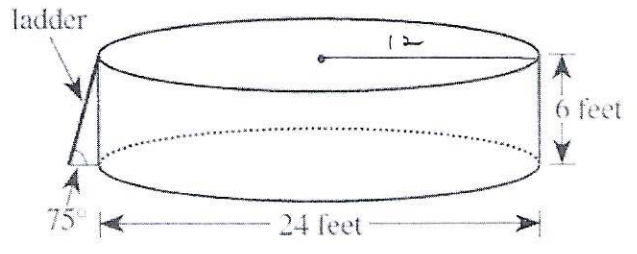
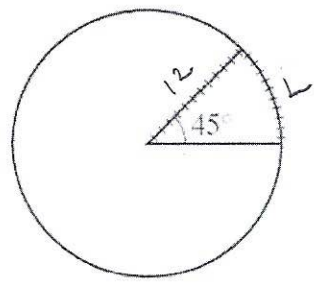
11) $L = 5.5\pi$

178 360 360

30. A plastic cover is made for the pool. The cover will rest on the top of the pool and will include a wedge-shaped flap that forms a 45° angle at the center of the cover, as shown in the figure below. A zipper will go along 1 side of the wedge-shaped flap and around the arc. Which of the following is closest to the length, in feet, of the zipper?

- 1) $C = \pi d$
- 2) $C = 24\pi$
- 3) $\frac{45}{360} = \frac{L}{24\pi}$
- 4) $360L = 45(24\pi)$

Zipper = $12 + L$



- F. 17
- G. 22
- H. 24
- J. 29
- K. 57

5) $\frac{360L}{360} = \frac{1080\pi}{360}$

6) $L = 3\pi$

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7) $L \approx 9.425$

8) $9.425 + 12 = 21.425 \approx 22$