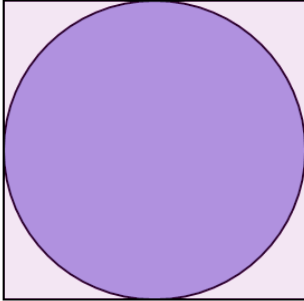


## Inscribed Circle in Square - Circle Area to Square Side Length

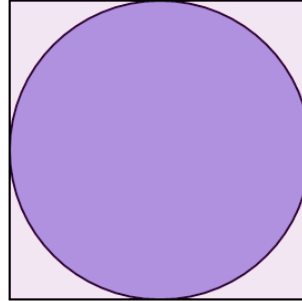
1 Find the side length of a square that has an inscribed circle of area 5



A  $2\sqrt{\frac{2}{\pi}}$  B **25** C  $\frac{10^2}{2}\pi$

D  $2\sqrt{\frac{5}{\pi}}$  E  $2\sqrt{\frac{10}{2\pi}}$  F  $\frac{50}{2}\sqrt{2}$

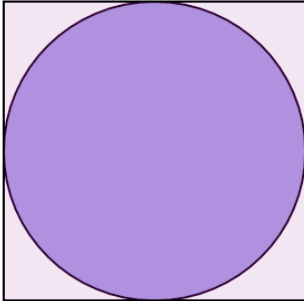
2 Find the side length of a square that has an inscribed circle of area 3



A  $2\sqrt{\frac{3}{\pi}}$  B  $5^2$  C  $2\sqrt{\frac{1}{\pi}}$

D  $\frac{9^2}{2}\pi$  E  $2\sqrt{\frac{9}{2\pi}}$

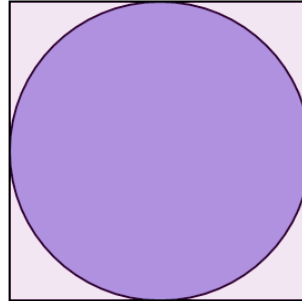
3 Find the side length of a square that has an inscribed circle of area 7



A  $\frac{14^2}{2}\pi$  B  $2\sqrt{\frac{7}{\pi}}$  C  $2\sqrt{\frac{49}{2}}$

D  $2\sqrt{\frac{3}{\pi}}$  E  $(\sqrt{14})^2\pi$  F  $2\sqrt{\frac{98}{2}}$

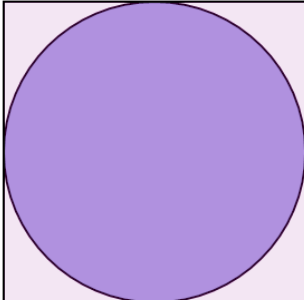
4 Find the side length of a square that has an inscribed circle of area 4



A  $(\sqrt{8})^2\pi$  B  $2\sqrt{\frac{4}{\pi}}$  C  $2\sqrt{\frac{2}{\pi}}$

D  $(\sqrt{32})^2\pi$  E  $\frac{8^2}{2}\pi$  F  $\frac{8}{\pi}$

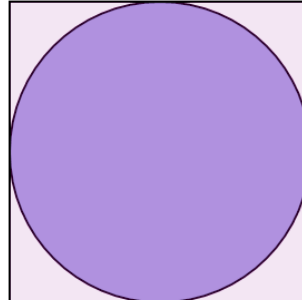
5 Find the side length of a square that has an inscribed circle of area 6



A  $2\sqrt{\frac{3}{\pi}}$  B  $2\sqrt{\frac{6}{\pi}}$  C  $4\sqrt{72}$

D  $\frac{36^2}{2}\pi$  E  $(\sqrt{18})^2\pi$  F  $\frac{72}{\pi}$

6 Find the side length of a square that has an inscribed circle of area 8



A  $2\sqrt{\frac{16}{2\pi}}$  B  $2\sqrt{\frac{4}{\pi}}$  C  $\frac{32}{2}\sqrt{2}$

D  $2\sqrt{\frac{8}{\pi}}$  E  $\frac{32^2}{2}\pi$  F **16π**