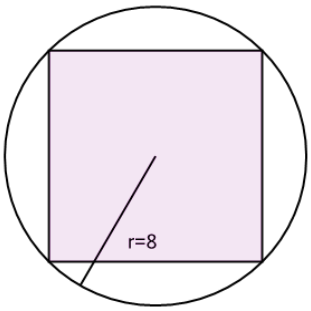
Name

Inscribed Square in Circle - Circle Radius to Square Area

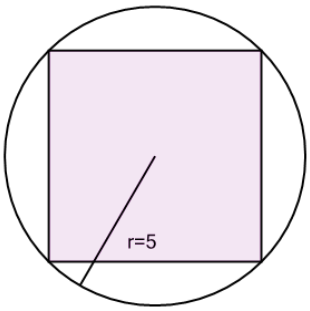
1 Find the area of the square inscribed in a circle with radius 8



A $2\sqrt{\frac{64}{2\pi}}$ B 128 C $4\sqrt{128}$

D $2\sqrt{\frac{128}{2\pi}}$ E $2\sqrt{\frac{128}{2}}$ F 64

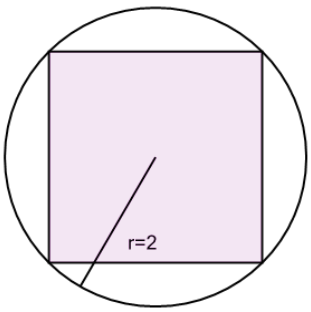
2 Find the area of the square inscribed in a circle with radius 5



A 50 B $4\sqrt{10}$ C $\frac{10^2}{2}\pi$

D $2\sqrt{\frac{25}{2\pi}}$ E $\frac{13}{\pi}$ F 25

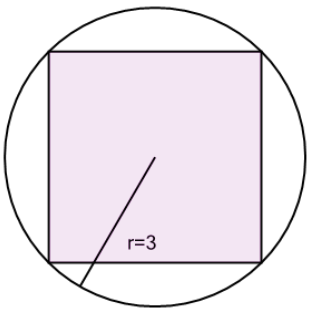
3 Find the area of the square inscribed in a circle with radius 2



A $\frac{2}{2}\sqrt{2}$ B 4 C 8

D 4π E $2\sqrt{\frac{4}{2\pi}}$ F $\frac{4}{\pi}$

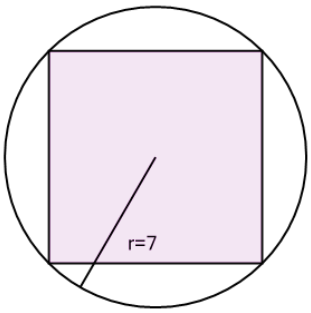
4 Find the area of the square inscribed in a circle with radius 3



A $\frac{6}{2}\sqrt{2}$ B $\frac{18^2}{2}\pi$ C $(\sqrt{9})^2\pi$

D 18 E $\frac{9}{2}\sqrt{2}$ F 9

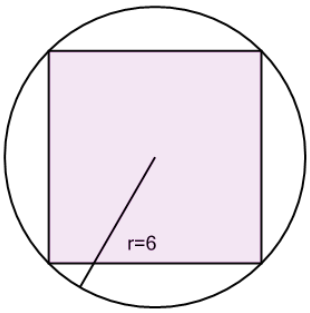
5 Find the area of the square inscribed in a circle with radius 7



A 49 B 98 C $4\sqrt{25}$

D $2\sqrt{\frac{98}{2\pi}}$ E $2\sqrt{\frac{14}{2\pi}}$ F $\frac{49}{2}\sqrt{2}$

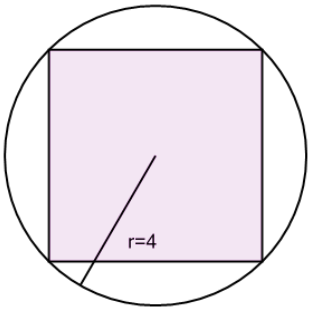
6 Find the area of the square inscribed in a circle with radius 6



A $(\sqrt{12})^2\pi$ B 72 C 36

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

7 Find the area of the square inscribed in a circle with radius 4



A $\frac{8}{\pi}$ B $\frac{16}{2}\sqrt{2}$ C $\frac{8^2}{2}\pi$

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