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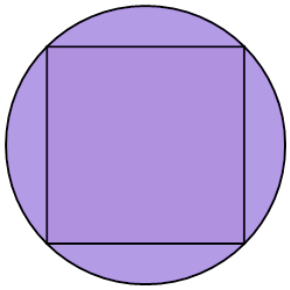
Math worksheet on *'Inscribed Square in Circle - Circle Area to Square Area (Level 1)'*. Part of a broader unit on *'Inscribed Squares and Circles - Intro'*

Learn online: app.mobius.academy/math/units/inscribed_squares_and_circles_intro/

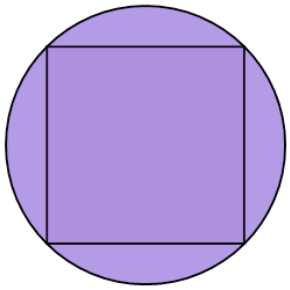
1 Find the area of the square inscribed in a circle of area 4



a $\frac{4}{\pi}$ b $\frac{8}{\pi}$ c $4\sqrt{8}$

d $\frac{16}{\pi}$ e $\frac{8^2}{2}\pi$ f $\frac{32^2}{2}\pi$

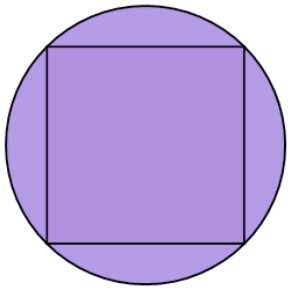
2 Find the area of the square inscribed in a circle of area 2



a $\frac{4}{\pi}$ b $\frac{4}{2}\sqrt{2}$ c $2\sqrt{\frac{2}{2\pi}}$

d $\frac{2}{\pi}$ e $4\sqrt{4}$

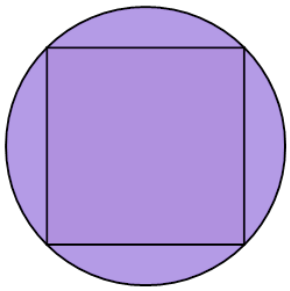
3 Find the area of the square inscribed in a circle of area 6



a 36π b 36 c $\frac{18^2}{2}\pi$

d $\frac{6}{\pi}$ e $\frac{12}{\pi}$ f $\frac{72^2}{2}\pi$

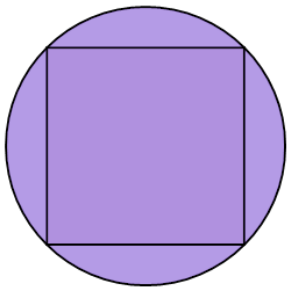
4 Find the area of the square inscribed in a circle of area 5



a $\frac{10}{\pi}$ b 13 c $\frac{25}{2}\sqrt{2}$

d $4\sqrt{50}$ e $\frac{5}{\pi}$ f $\frac{13}{\pi}$

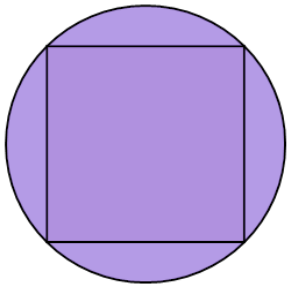
5 Find the area of the square inscribed in a circle of area 3



a 6 b $\frac{6}{\pi}$ c $(\sqrt{6})^2\pi$

d $\frac{3}{\pi}$ e 18 f $\frac{18^2}{2}\pi$

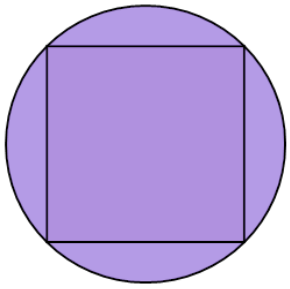
6 Find the area of the square inscribed in a circle of area 7



a $(\sqrt{98})^2\pi$ b $\frac{7}{\pi}$ c 98

d $2\sqrt{\frac{98}{2\pi}}$ e $\frac{98}{\pi}$ f $\frac{14}{\pi}$

7 Find the area of the square inscribed in a circle of area 8



a $(\sqrt{128})^2\pi$ b $\frac{64^2}{2}\pi$

c 16π d $\frac{8}{\pi}$

e $\frac{16}{\pi}$ f 128