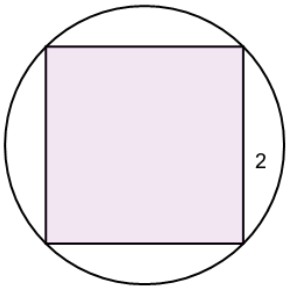
mobius

Math worksheet on *'Inscribed Square in Circle - Square Side Length to Circle 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/

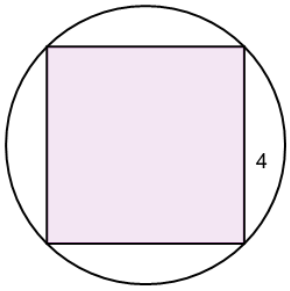
1 Find the area of the circle that has a square inscribed with side length 2



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

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

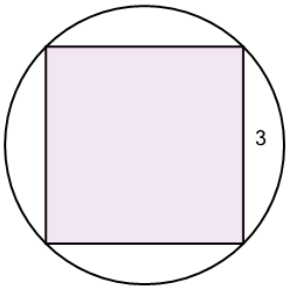
2 Find the area of the circle that has a square inscribed with side length 4



a $(\sqrt{32})^2\pi$ **b** $\frac{8}{\pi}$ **c** $\frac{4^2}{2}\pi$

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

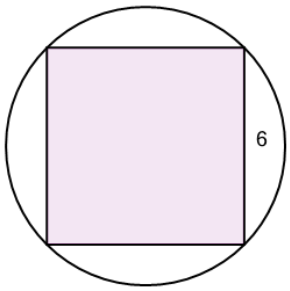
3 Find the area of the circle that has a square inscribed with side length 3



a $\frac{5^2}{2}\pi$ **b** $\frac{3^2}{2}\pi$ **c** $\frac{6}{\pi}$

d $4\sqrt{6}$ **e** $\frac{18}{2}\sqrt{2}$ **f** $\frac{6}{\pi}$

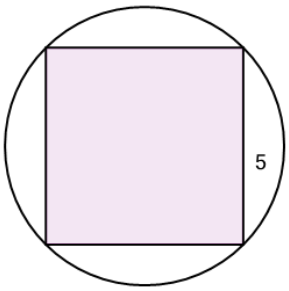
4 Find the area of the circle that has a square inscribed with side length 6



a $4\sqrt{12}$ **b** $\frac{36^2}{2}\pi$ **c** $\frac{12}{\pi}$

d $\frac{18}{2}\sqrt{2}$ **e** $2\sqrt{\frac{12}{2}}$ **f** $\frac{6^2}{2}\pi$

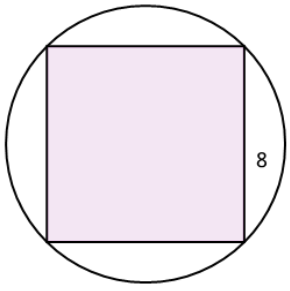
5 Find the area of the circle that has a square inscribed with side length 5



a $\frac{10^2}{2}\pi$ **b** $\frac{50^2}{2}\pi$ **c** $\frac{13}{\pi}$

d $(\sqrt{25})^2\pi$ **e** $\frac{5^2}{2}\pi$ **f** $\frac{10^2}{2}\pi$

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



a $\frac{8^2}{2}\pi$ **b** $(\sqrt{64})^2\pi$ **c** $\frac{64}{2}\sqrt{2}$

d $\frac{32}{\pi}$ **e** $\frac{128^2}{2}\pi$ **f** $\frac{16}{\pi}$