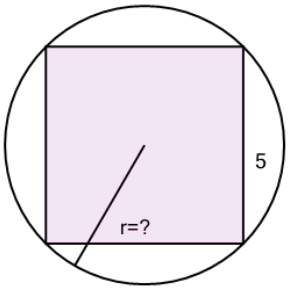
Math worksheet on *'Inscribed Square in Circle - Square Side Length to Circle Radius (Level 1)'*. Part of a broader unit on *'Inscribed Squares and Circles - Intro'*

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

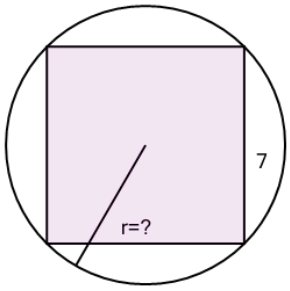
**1** Find the radius of the circle that has a square inscribed with side length 5




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

**d** $\sqrt{\frac{50}{2}}$ **e** $2\sqrt{\frac{50}{2\pi}}$ **f** $2\sqrt{\frac{25}{2\pi}}$

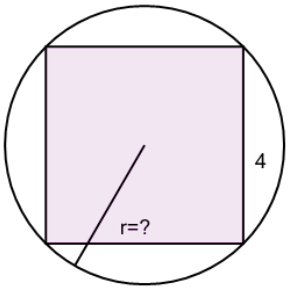
**2** Find the radius of the circle that has a square inscribed with side length 7




**a** $2\sqrt{\frac{49}{2\pi}}$ **b** $49\pi$ **c** $2\sqrt{\frac{98}{2\pi}}$

**d** $\frac{14}{2}^2\pi$ **e** $\sqrt{\frac{49}{2}}$ **f** $\sqrt{\frac{98}{2}}$

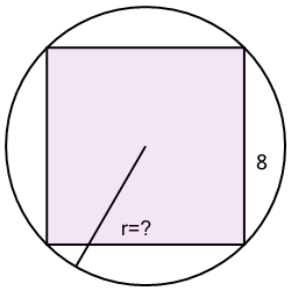
**3** Find the radius of the circle that has a square inscribed with side length 4




**a** $\frac{32}{2}^2\pi$ **b** $16$ **c** $\frac{8}{2}^2\pi$

**d** $\sqrt{16}$ **e** $\sqrt{8}$ **f** $\frac{8}{2}\sqrt{2}$

**4** Find the radius of the circle that has a square inscribed with side length 8

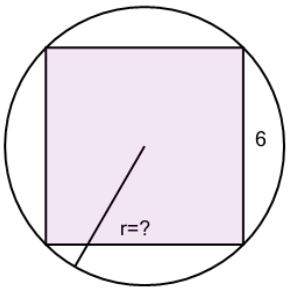



**a** $2\sqrt{\frac{32}{2}}$ **b** $\sqrt{64}$

**c** $\frac{64}{2}^2\pi$ **d** $\sqrt{32}$

**e** $(\sqrt{128})^2\pi$ **f** $2\sqrt{\frac{64}{2}}$

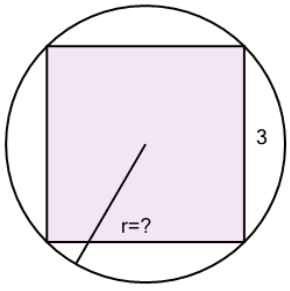
**5** Find the radius of the circle that has a square inscribed with side length 6




**a** $\frac{72}{2}\sqrt{2}$ **b** $\sqrt{18}$ **c** $4\sqrt{12}$

**d** $\sqrt{36}$ **e** $4\sqrt{72}$ **f** $\frac{18}{2}^2\pi$

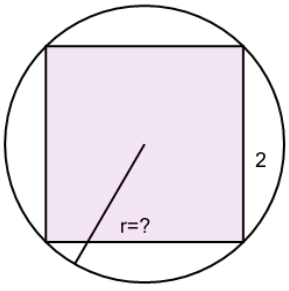
**6** Find the radius of the circle that has a square inscribed with side length 3




**a** $\sqrt{\frac{9}{2}}$ **b** $\frac{6^2}{2}\pi$ **c** $4\sqrt{5}$

**d** $\sqrt{\frac{18}{2}}$ **e** $\frac{5}{\pi}$ **f** $\frac{9}{\pi}$

**7** Find the radius of the circle that has a square inscribed with side length 2




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

**d** $\sqrt{4}$