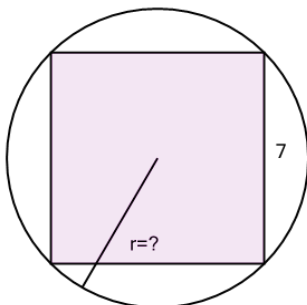# Inscribed Square in Circle - Square Side Length to Circle Radius

**1** Find the radius of the circle that has a 7x7 square inscribed
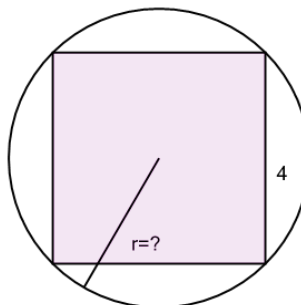
A $98$  B $\sqrt{\dfrac{49}{2}}$  C $\dfrac{25}{\pi}$

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

**2** Find the radius of the circle that has a 4x4 square inscribed
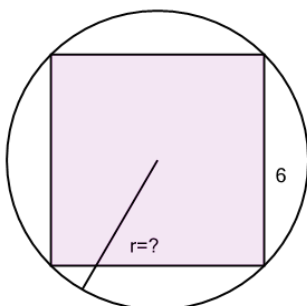
A $\dfrac{8}{\pi}$  B $\sqrt{8}$  C $\dfrac{32}{2}^2\pi$

D $\dfrac{8}{2}^2\pi$  E $\sqrt{16}$  F $\dfrac{8}{2}\sqrt{2}$

**3** Find the radius of the circle that has a 6x6 square inscribed
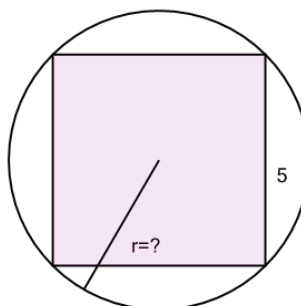
A $\dfrac{36}{2}^2\pi$  B $\sqrt{18}$  C $\dfrac{12}{\pi}$

D $\dfrac{18^2}{2}\pi$  E $\sqrt{36}$  F $72\pi$

**4** Find the radius of the circle that has a 5x5 square inscribed

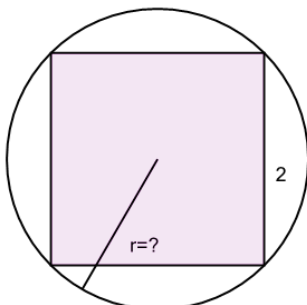A $\sqrt{\dfrac{25}{2}}$  B $\sqrt{\dfrac{50}{2}}$  C $4\sqrt{10}$

D $10\pi$  E $\dfrac{50}{2}^2\pi$  F $2\sqrt{\dfrac{25}{2}}$

**5** Find the radius of the circle that has a 2x2 square inscribed
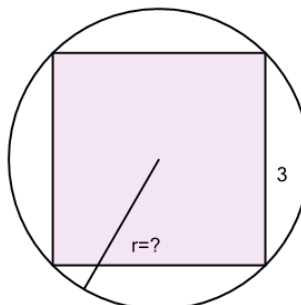
A $\sqrt{2}$  B $\dfrac{8}{2}^2\pi$  C $\dfrac{8}{2}\sqrt{2}$

D $\sqrt{4}$  E $8\pi$  F $2\sqrt{\dfrac{4}{2\pi}}$

**6** Find the radius of the circle that has a 3x3 square inscribed

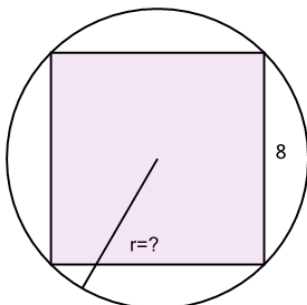A $\dfrac{18}{2}^2\pi$  B $\sqrt{\dfrac{9}{2}}$  C $\dfrac{5}{\pi}$

D $2\sqrt{\dfrac{5}{2\pi}}$  E $2\sqrt{\dfrac{18}{2}}$  F $\sqrt{\dfrac{18}{2}}$

**7** Find the radius of the circle that has a 8x8 square inscribed

A $\dfrac{16}{2}^2\pi$  B $\dfrac{16}{\pi}$  C $2\sqrt{\dfrac{128}{2\pi}}$

D $\dfrac{128}{\pi}$  E $\sqrt{32}$  F $\sqrt{64}$