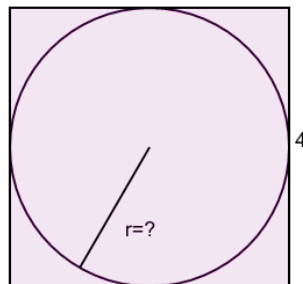




Math worksheet on 'Inscribed Circle in Square - Square Side Length to Circle Radius (Level 1)'. Part of a broader unit on 'Inscribed Squares and Circles - Intro'

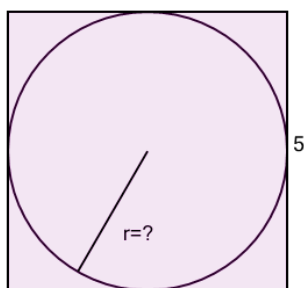
Learn online: app.mobius.academy/math/units/inscribed_squares_and_circles_intro/

1 Find the radius of the circle inscribed in a square with side length 4



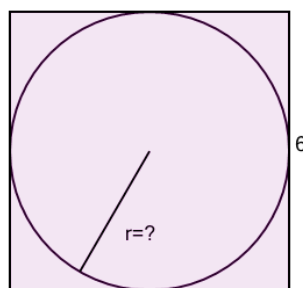
- | | | |
|--------|------------------|-----------------|
| a | b | c |
| 8π | $\frac{16}{\pi}$ | $\frac{4}{2}$ |
| d | e | f |
| 8π | $4\sqrt{8}$ | $\frac{8}{\pi}$ |

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



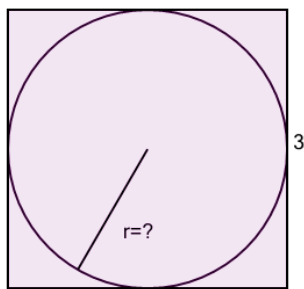
- | | | |
|------------------------|---------------------|---------------------|
| a | b | c |
| $\frac{10}{\pi}$ | $\frac{25}{\pi}$ | $\frac{13^2}{2}\pi$ |
| d | e | f |
| $2\sqrt{\frac{50}{2}}$ | $\frac{50^2}{2}\pi$ | $\frac{5}{2}$ |

3 Find the radius of the circle inscribed in a square with side length 6



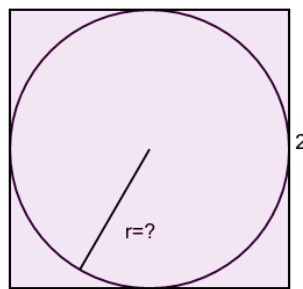
- | | | |
|------------------|--------------------|------------------|
| a | b | c |
| $\frac{6}{2}$ | $4\sqrt{72}$ | $4\sqrt{18}$ |
| d | e | f |
| $\frac{36}{\pi}$ | $(\sqrt{36})^2\pi$ | $\frac{72}{\pi}$ |

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



- | | | |
|---------------------|-----------------------|--------------------------|
| a | b | c |
| $\frac{9^2}{2}\pi$ | $\frac{3}{2}$ | $\frac{9}{2}\sqrt{2}$ |
| d | e | f |
| $\frac{18^2}{2}\pi$ | $2\sqrt{\frac{9}{2}}$ | $2\sqrt{\frac{6}{2\pi}}$ |

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



- | | | |
|--------------------------|-----------------------|-----------------------|
| a | b | c |
| $2\sqrt{\frac{2}{2\pi}}$ | $\frac{8}{2}\sqrt{2}$ | 8 |
| d | e | f |
| $\frac{8}{2}\sqrt{2}$ | $\frac{2}{2}$ | $2\sqrt{\frac{2}{2}}$ |