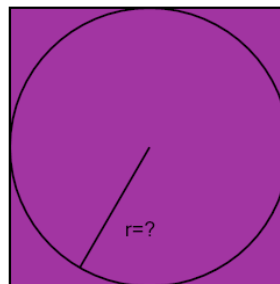




Math worksheet on 'Inscribed Circle in Square - Square Area to Circle Radius (Level 1)'. Part of a broader unit on 'Inscribed Squares and Circles - Intro'

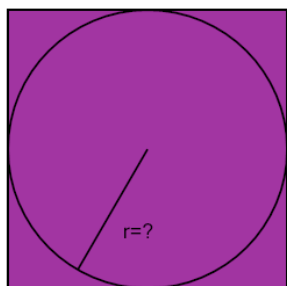
Learn online: app.mobius.academy/math/units/inscribed_squares_and_circles_intro/

1 Find the radius of the circle inscribed in a square with area 49



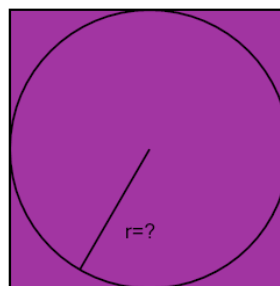
- | | | |
|------------------------|-----------------------|------------------------|
| a | b | c |
| $4\sqrt{49}$ | 98 | $2\sqrt{\frac{49}{2}}$ |
| d | e | f |
| $2\sqrt{\frac{98}{2}}$ | $\frac{\sqrt{49}}{2}$ | 49 |

2 Find the radius of the circle inscribed in a square with area 25



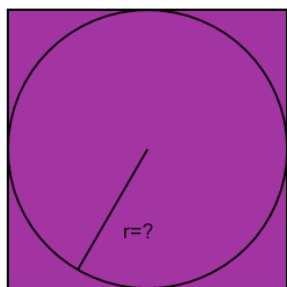
- | | | |
|------------------------|---------------------------|---------------------------|
| a | b | c |
| $\frac{\sqrt{25}}{2}$ | $2\sqrt{\frac{13}{2\pi}}$ | 10π |
| d | e | f |
| $2\sqrt{\frac{10}{2}}$ | $4\sqrt{25}$ | $\frac{10}{2}\sqrt{2}$ |

3 Find the radius of the circle inscribed in a square with area 36



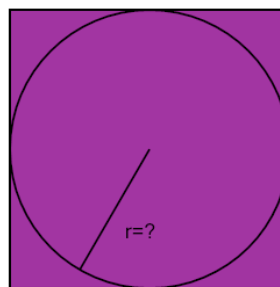
- | | | |
|--------------------|---------------------------|-----------------------|
| a | b | c |
| $4\sqrt{18}$ | $2\sqrt{\frac{12}{2}}$ | $\frac{\sqrt{36}}{2}$ |
| d | e | f |
| $(\sqrt{18})^2\pi$ | 36π | $(\sqrt{12})^2\pi$ |

4 Find the radius of the circle inscribed in a square with area 4



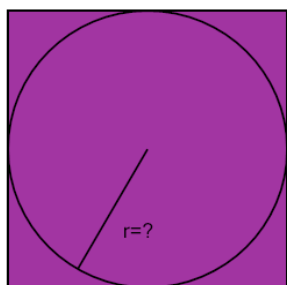
- | | | |
|--------------------|--------------------------|----------------------|
| a | b | c |
| $\frac{4}{\pi}$ | $2\sqrt{\frac{2}{2\pi}}$ | $4\sqrt{4}$ |
| d | e | f |
| $\frac{2^2}{2}\pi$ | $4\sqrt{8}$ | $\frac{\sqrt{4}}{2}$ |

5 Find the radius of the circle inscribed in a square with area 64



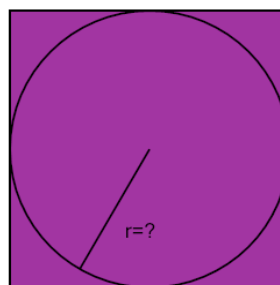
- | | |
|-----------------------|---------------------------|
| a | b |
| $\frac{128}{\pi}$ | 64π |
| c | d |
| $\frac{32}{\pi}$ | $\frac{128^2}{2}\pi$ |
| e | f |
| $\frac{\sqrt{64}}{2}$ | $(\sqrt{128})^2\pi$ |

6 Find the radius of the circle inscribed in a square with area 16



- | | | |
|----------|-----------------------|-----------------------|
| a | b | c |
| 8 | $(\sqrt{32})^2\pi$ | $\frac{8}{2}\sqrt{2}$ |
| d | e | f |
| 8 | $\frac{\sqrt{16}}{2}$ | $4\sqrt{16}$ |

7 Find the radius of the circle inscribed in a square with area 9



- | | | |
|--------------------|----------------------|-----------------------|
| a | b | c |
| $(\sqrt{6})^2\pi$ | $\frac{\sqrt{9}}{2}$ | $\frac{5}{2}\sqrt{2}$ |
| d | e | f |
| $\frac{5^2}{2}\pi$ | $\frac{6^2}{2}\pi$ | $\frac{9^2}{2}\pi$ |