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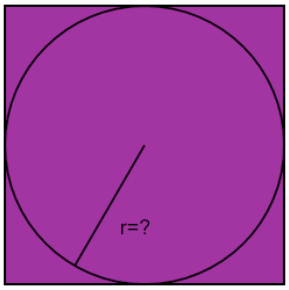
Math worksheet on *'Inscribed Square in Circle - Square Area to Circle Radius (Level 1)'*. Part of a broader unit on *'Inscribed Squares and Circles - Intro'*

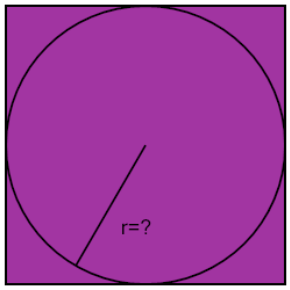
Learn online: app.mobius.academy/math/units/inscribed_squares_and_circles_intro/

1 Find the radius of the circle that has a square inscribed with area 25



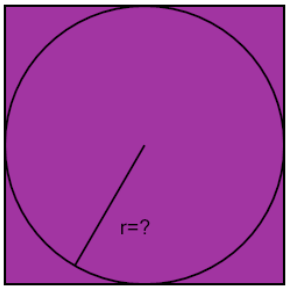
a. $\frac{25}{\pi}$ b. $\frac{50}{2}\sqrt{2}$ c. $(\sqrt{10})^2\pi$
d. $2\sqrt{\frac{10}{2}}$ e. $\frac{25}{4}\sqrt{2}$ f. 13π

2 Find the radius of the circle that has a square inscribed with area 9



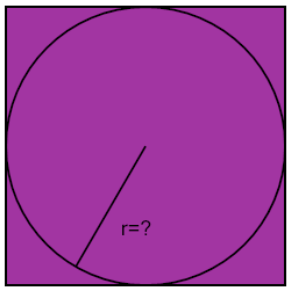
a. $\frac{9}{4}\sqrt{2}$ b. $\frac{18}{2}\sqrt{2}$ c. $4\sqrt{6}$
d. $(\sqrt{5})^2\pi$ e. $\frac{18^2}{2}\pi$ f. $\frac{18}{\pi}$

3 Find the radius of the circle that has a square inscribed with area 16



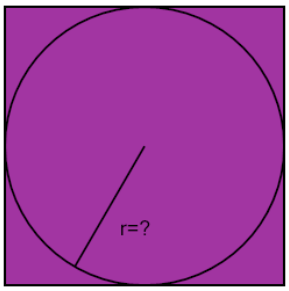
a. 8 b. $2\sqrt{\frac{16}{2}}$ c. $\frac{16}{4}\sqrt{2}$
d. 16 e. $\frac{32}{\pi}$ f. $\frac{16}{\pi}$

4 Find the radius of the circle that has a square inscribed with area 36



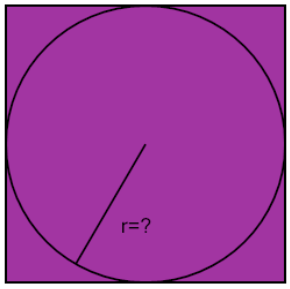
a. $\frac{12}{\pi}$ b. $\frac{72^2}{2}\pi$ c. $\frac{36}{4}\sqrt{2}$
d. $4\sqrt{72}$ e. $\frac{36^2}{2}\pi$ f. $\frac{18}{2}\sqrt{2}$

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



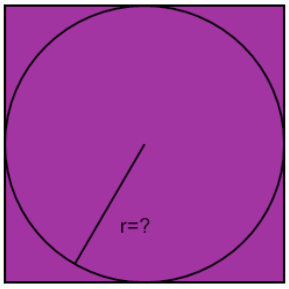
a. $\frac{32}{\pi}$ b. $\frac{128}{\pi}$ c. $\frac{128^2}{2}\pi$
d. $2\sqrt{\frac{32}{2\pi}}$ e. $\frac{16}{\pi}$ f. $\frac{64}{4}\sqrt{2}$

6 Find the radius of the circle that has a square inscribed with area 49



a. $\frac{25}{2}\sqrt{2}$ b. $4\sqrt{98}$ c. $(\sqrt{25})^2\pi$
d. $\frac{14^2}{2}\pi$ e. $\frac{98^2}{2}\pi$ f. $\frac{49}{4}\sqrt{2}$

7 Find the radius of the circle that has a square inscribed with area 4



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