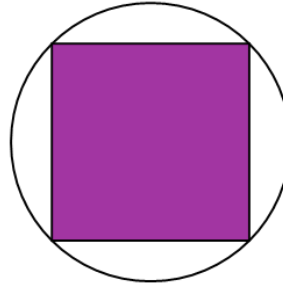




Math worksheet on 'Inscribed Square in Circle - Square Area to Circle Area (Level 1)'. Part of a broader unit on 'Inscribed Squares and Circles - Intro'

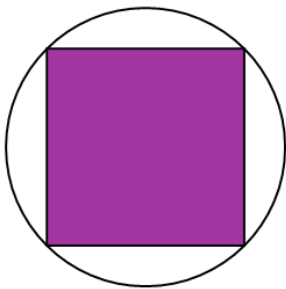
Learn online: app.mobius.academy/math/units/inscribed_squares_and_circles_intro/

- 1 Find the area of the circle that has a square inscribed with area 49



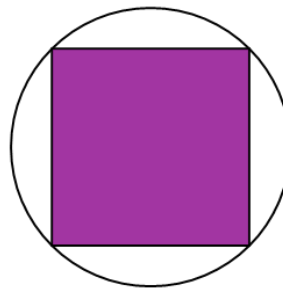
a	b	c
$\frac{49^2}{2} \pi$	$\frac{24^2}{2} \pi$	25π
d	e	f
$2\sqrt{\frac{98}{2\pi}}$	$4\sqrt{14}$	$4\sqrt{49}$

- 2 Find the area of the circle that has a square inscribed with area 25



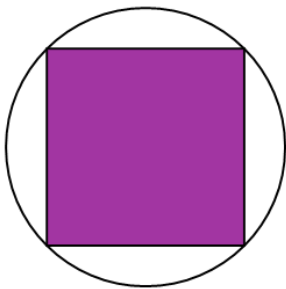
a	b	c
$\frac{12^2}{2} \pi$	$\frac{13}{\pi}$	10π
d	e	f
$(\sqrt{50})^2 \pi$	$\frac{13^2}{2} \pi$	$\frac{25^2}{2} \pi$

- 3 Find the area of the circle that has a square inscribed with area 36



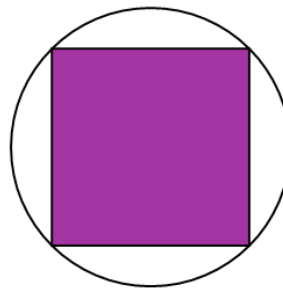
a	b	c
$(\sqrt{18})^2 \pi$	$\frac{12^2}{2} \pi$	$\frac{36^2}{2} \pi$
d	e	f
$\frac{18^2}{2} \pi$	$2\sqrt{\frac{72}{2}}$	$2\sqrt{\frac{72}{2\pi}}$

- 4 Find the area of the circle that has a square inscribed with area 16



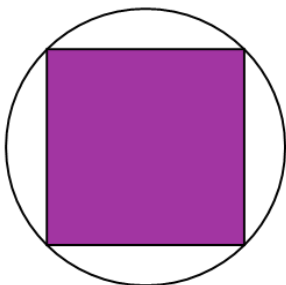
a	b	c
$\frac{8^2}{2} \pi$	$\frac{8}{2} \sqrt{2}$	$\frac{32^2}{2} \pi$
d	e	f
$\frac{8^2}{2} \pi$	$\frac{16^2}{2} \pi$	8π

- 5 Find the area of the circle that has a square inscribed with area 4



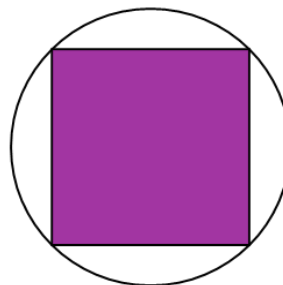
a	b	c
$\frac{2}{\pi}$	$(\sqrt{4})^2 \pi$	$\frac{4^2}{2} \pi$
d	e	f
$2\sqrt{\frac{4}{2}}$	$\frac{2^2}{2} \pi$	$\frac{4}{\pi}$

- 6 Find the area of the circle that has a square inscribed with area 9



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

- 7 Find the area of the circle that has a square inscribed with area 64



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