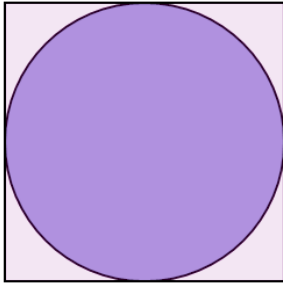




Math worksheet on 'Inscribed Circle in Square - Circle Area to Square Side Length (Level 1)'. Part of a broader unit on 'Inscribed Squares and Circles - Intro'

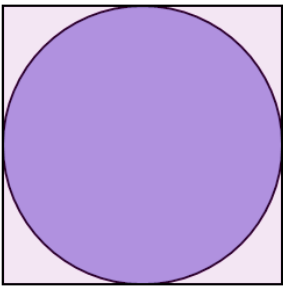
Learn online: app.mobius.academy/math/units/inscribed_squares_and_circles_intro/

1 Find the side length of a square that has an inscribed circle of area 4



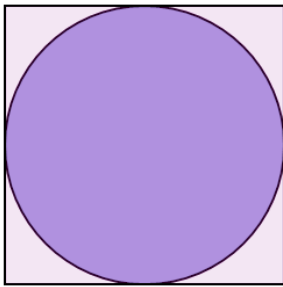
a	b	c
$2\sqrt{\frac{2}{\pi}}$	$2\sqrt{\frac{4}{\pi}}$	8π
d	e	f
$\frac{8}{\pi}$	$\frac{8}{2}\sqrt{2}$	32π

2 Find the side length of a square that has an inscribed circle of area 5



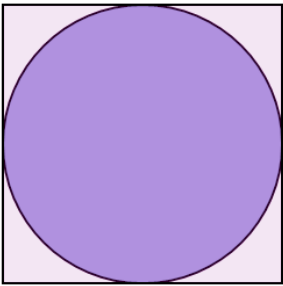
a	b	c
$2\sqrt{\frac{5}{\pi}}$	$\frac{13^2}{2}\pi$	$\frac{50^2}{2}\pi$
d	e	f
$2\sqrt{\frac{2}{\pi}}$	13	$\frac{10}{2}\sqrt{2}$

3 Find the side length of a square that has an inscribed circle of area 6



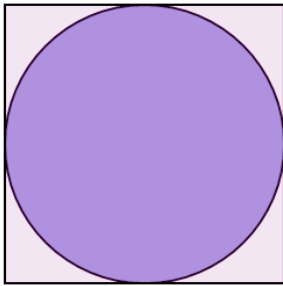
a	b	c
$\frac{72}{\pi}$	$\frac{36^2}{2}\pi$	$2\sqrt{\frac{3}{\pi}}$
d	e	f
$\frac{72^2}{2}\pi$	$2\sqrt{\frac{6}{\pi}}$	$\frac{12}{2}\sqrt{2}$

4 Find the side length of a square that has an inscribed circle of area 3



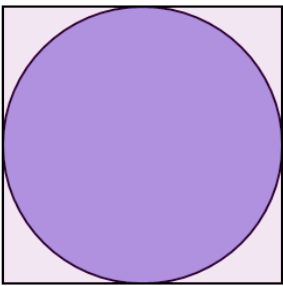
a	b	c
$\frac{9^2}{2}\pi$	$2\sqrt{\frac{9}{2\pi}}$	$2\sqrt{\frac{3}{\pi}}$
d	e	f
$(\sqrt{9})^2\pi$	18	$2\sqrt{\frac{1}{\pi}}$

5 Find the side length of a square that has an inscribed circle of area 2



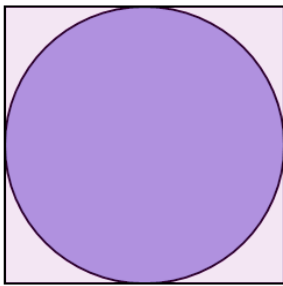
a	b	c
$\frac{2}{\pi}$	$2\sqrt{\frac{8}{2\pi}}$	$2\sqrt{\frac{2}{\pi}}$
d	e	f
$\frac{4^2}{2}\pi$	$2\sqrt{\frac{1}{\pi}}$	$\frac{8^2}{2}\pi$

6 Find the side length of a square that has an inscribed circle of area 8



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

7 Find the side length of a square that has an inscribed circle of area 7



a	b	c
$(\sqrt{25})^2\pi$	$\frac{14^2}{2}\pi$	$\frac{25}{\pi}$
d	e	f
$2\sqrt{\frac{3}{\pi}}$	$\frac{98}{\pi}$	$2\sqrt{\frac{7}{\pi}}$