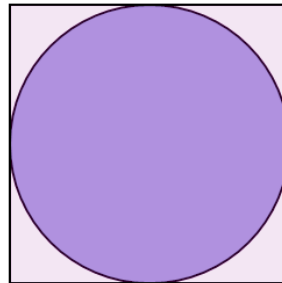




Math worksheet on 'Inscribed Circle in Square - Circle Area to Square Area (Level 1)'. Part of a broader unit on 'Inscribed Squares and Circles - Intro'

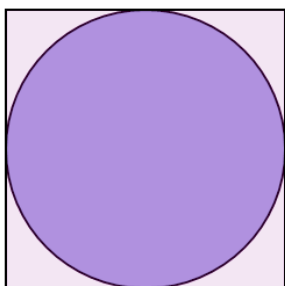
Learn online: app.mobius.academy/math/units/inscribed_squares_and_circles_intro/

1 Find the area of the square that has an inscribed circle of area 7



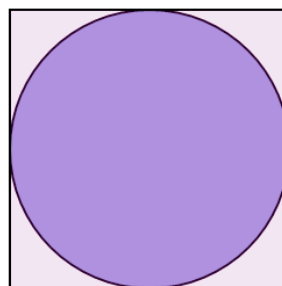
a	b	c
98π	$\frac{14}{\pi}$	98
d	e	f
$\frac{28}{\pi}$	$\frac{98}{\pi}$	$4\sqrt{98}$

2 Find the area of the square that has an inscribed circle of area 6



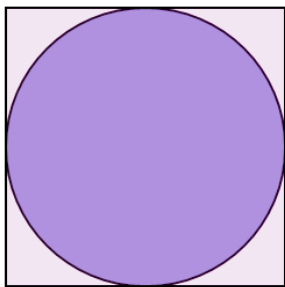
a	b	c
$\frac{12}{\pi}$	$\frac{36}{\pi}$	$\frac{18^2}{2}\pi$
d	e	f
$4\sqrt{36}$	$\frac{24}{\pi}$	18

3 Find the area of the square that has an inscribed circle of area 2



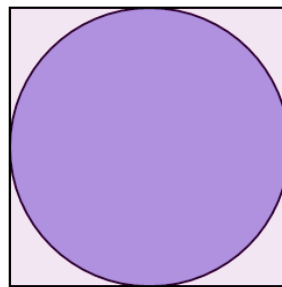
a	b	c
$4\sqrt{8}$	$\frac{8}{\pi}$	$(\sqrt{8})^2\pi$
d	e	f
$\frac{2}{\pi}$	$\frac{4}{\pi}$	

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



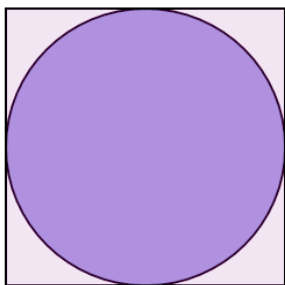
a	b	c
$\frac{6}{\pi}$	$\frac{6^2}{2}\pi$	$\frac{9^2}{2}\pi$
d	e	f
$\frac{6^2}{2}\pi$	$\frac{12}{\pi}$	$(\sqrt{5})^2\pi$

5 Find the area of the square that has an inscribed circle of area 4



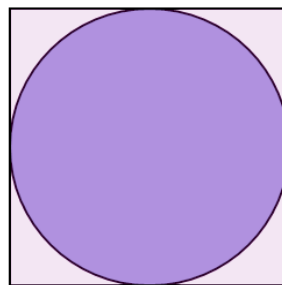
a	b	c
$\frac{32}{2}\sqrt{2}$	$\frac{8}{\pi}$	$(\sqrt{16})^2\pi$
d	e	f
$(\sqrt{8})^2\pi$	$\frac{16}{\pi}$	$2\sqrt{\frac{16}{2\pi}}$

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



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

7 Find the area of the square that has an inscribed circle of area 5



a	b	c
$\frac{10}{\pi}$	10	$2\sqrt{\frac{25}{2\pi}}$
d	e	f
$\frac{20}{\pi}$	$\frac{13}{\pi}$	