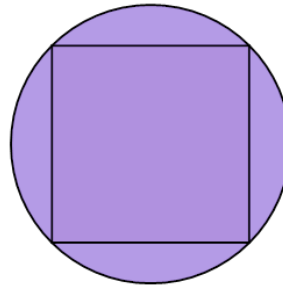




Math worksheet on 'Inscribed Square in Circle - Circle Area to Square Area (Level 1)'. Part of a broader unit on 'Inscribed Squares and Circles - Intro'

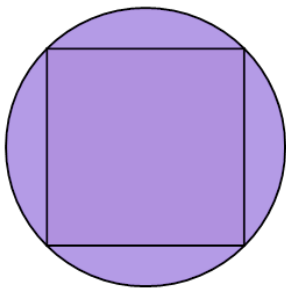
Learn online: app.mobius.academy/math/units/inscribed_squares_and_circles_intro/

1 Find the area of the square inscribed in a circle of area 5



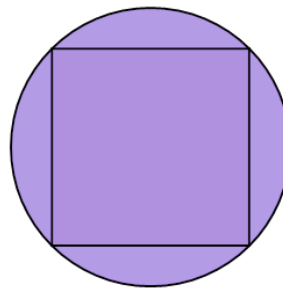
a	b	c
$4\sqrt{50}$	$\frac{25}{2}\sqrt{2}$	$\frac{5}{\pi}$
d	e	f
$\frac{10}{\pi}$	$\frac{13}{\pi}$	13

2 Find the area of the square inscribed in a circle of area 2



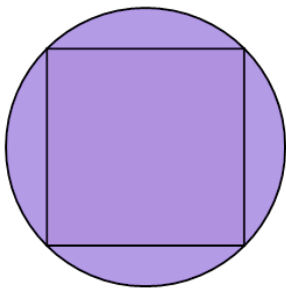
a	b	c
$\frac{4}{\pi}$	$\frac{2}{\pi}$	$2\sqrt{\frac{2}{2\pi}}$
d	e	
$4\sqrt{4}$	$\frac{4}{2}\sqrt{2}$	

3 Find the area of the square inscribed in a circle of area 6



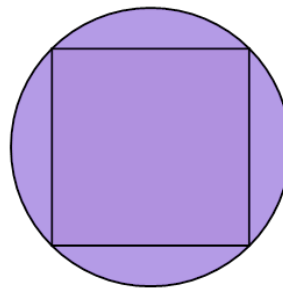
a	b	c
$\frac{6}{\pi}$	$\frac{72^2}{2}\pi$	36π
d	e	f
$\frac{18^2}{2}\pi$	$\frac{12}{\pi}$	36

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



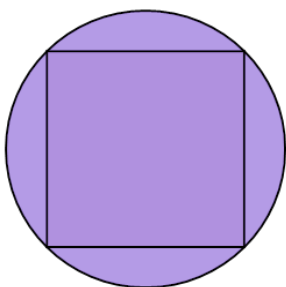
a	b	c
$\frac{8}{\pi}$	$\frac{8^2}{2}\pi$	$\frac{16}{\pi}$
d	e	f
$\frac{4}{\pi}$	$\frac{32^2}{2}\pi$	$4\sqrt{8}$

5 Find the area of the square inscribed in a circle of area 3



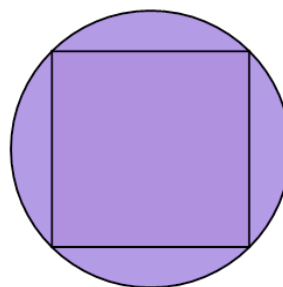
a	b	c
6	18	$\frac{6}{\pi}$
d	e	f
$(\sqrt{6})^2\pi$	$\frac{18^2}{2}\pi$	$\frac{3}{\pi}$

6 Find the area of the square inscribed in a circle of area 7



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

7 Find the area of the square inscribed in a circle of area 8



a	b
$(\sqrt{128})^2\pi$	$\frac{16}{\pi}$
c	d
128	$\frac{64^2}{2}\pi$
e	f
$\frac{8}{\pi}$	16π