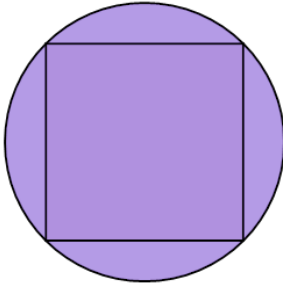




Math worksheet on 'Inscribed Square in Circle - Circle Area to Square Side Length (Level 1)'. Part of a broader unit on 'Inscribed Squares and Circles - Intro'

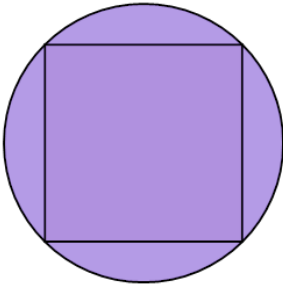
Learn online: [app.mobius.academy/math/units/inscribed\\_squares\\_and\\_circles\\_intro/](http://app.mobius.academy/math/units/inscribed_squares_and_circles_intro/)

**1** Find the side length of a square inscribed in a circle of area 5



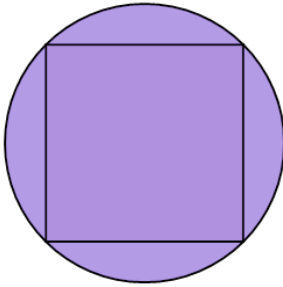
<b>a</b>	<b>b</b>	<b>c</b>
$2\sqrt{\frac{13}{2}}$	$4\sqrt{13}$	$(\sqrt{13})^2\pi$
<b>d</b>	<b>e</b>	<b>f</b>
$\frac{50}{\pi}$	$2\sqrt{\frac{5}{2\pi}}$	$\frac{25}{2}\sqrt{2}$

**2** Find the side length of a square inscribed in a circle of area 3



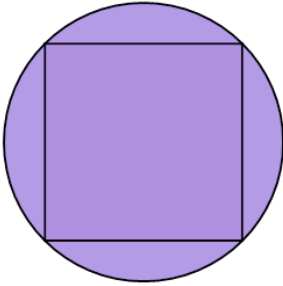
<b>a</b>	<b>b</b>	<b>c</b>
$\frac{9}{\pi}$	$\frac{5^2}{2}\pi$	$\frac{5^2}{2}\pi$
<b>d</b>	<b>e</b>	<b>f</b>
$2\sqrt{\frac{3}{2\pi}}$	$4\sqrt{5}$	$(\sqrt{6})^2\pi$

**3** Find the side length of a square inscribed in a circle of area 8



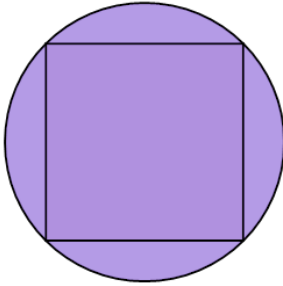
<b>a</b>	<b>b</b>	<b>c</b>
128	$2\sqrt{\frac{8}{2\pi}}$	$\frac{128}{2}\sqrt{2}$
<b>d</b>	<b>e</b>	<b>f</b>
$\frac{64}{\pi}$	16π	$\frac{128}{2}\sqrt{2}$

**4** Find the side length of a square inscribed in a circle of area 7



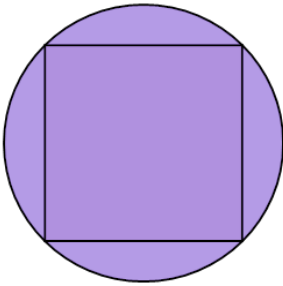
<b>a</b>	<b>b</b>	<b>c</b>
$\frac{14}{2}\sqrt{2}$	$2\sqrt{\frac{7}{2\pi}}$	$\frac{14^2}{2}\pi$
<b>d</b>	<b>e</b>	<b>f</b>
$\frac{98^2}{2}\pi$	98	25π

**5** Find the side length of a square inscribed in a circle of area 6



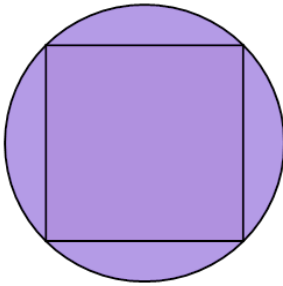
<b>a</b>	<b>b</b>	<b>c</b>
$2\sqrt{\frac{6}{2\pi}}$	72	$(\sqrt{18})^2\pi$
<b>d</b>	<b>e</b>	<b>f</b>
$2\sqrt{\frac{36}{2\pi}}$	18π	$(\sqrt{36})^2\pi$

**6** Find the side length of a square inscribed in a circle of area 2



<b>a</b>	<b>b</b>	<b>c</b>
4	$\frac{2}{2}\sqrt{2}$	2
<b>d</b>	<b>e</b>	<b>f</b>
2π	$2\sqrt{\frac{2}{2\pi}}$	$2\sqrt{\frac{4}{2\pi}}$

**7** Find the side length of a square inscribed in a circle of area 4



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