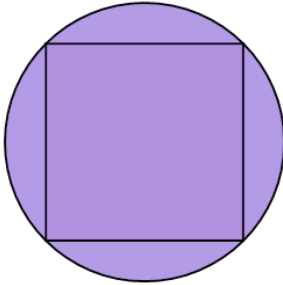




Math worksheet on 'Inscribed Square in Circle - Circle Area to Square Side Length (Level 1)'. Part of a broader unit on 'Inscribed Squares and Circles - Intro'

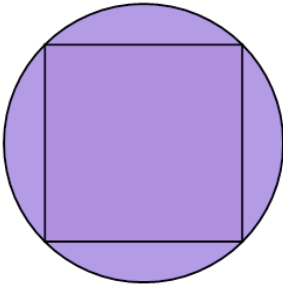
Learn online: [app.mobius.academy/math/units/inscribed\\_squares\\_and\\_circles\\_intro/](http://app.mobius.academy/math/units/inscribed_squares_and_circles_intro/)

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



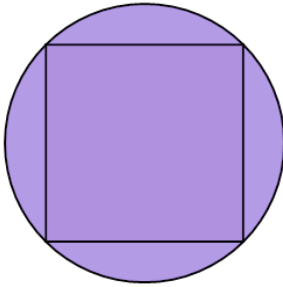
<b>a</b>	<b>b</b>	<b>c</b>
$(\sqrt{25})^2 \pi$	$2\sqrt{\frac{98}{2\pi}}$	$2\sqrt{\frac{14}{2\pi}}$
<b>d</b>	<b>e</b>	<b>f</b>
$2\sqrt{\frac{49}{2}}$	$2\sqrt{\frac{7}{2\pi}}$	$\frac{25}{\pi}$

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



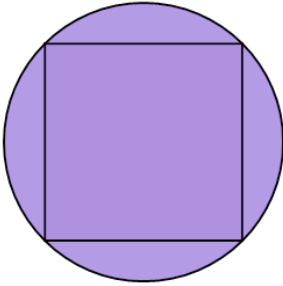
<b>a</b>	<b>b</b>	<b>c</b>
$\frac{128}{2} \sqrt{2}$	$\frac{16^2}{2} \pi$	$128\pi$
<b>d</b>	<b>e</b>	<b>f</b>
$2\sqrt{\frac{16}{2\pi}}$	$4\sqrt{128}$	$2\sqrt{\frac{8}{2\pi}}$

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



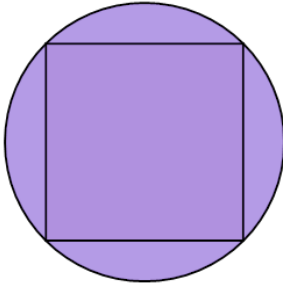
<b>a</b>	<b>b</b>	<b>c</b>
$4\sqrt{8}$	$\frac{32^2}{2} \pi$	$2\sqrt{\frac{8}{2\pi}}$
<b>d</b>	<b>e</b>	<b>f</b>
$\frac{8^2}{2} \pi$	$2\sqrt{\frac{4}{2\pi}}$	$(\sqrt{8})^2 \pi$

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



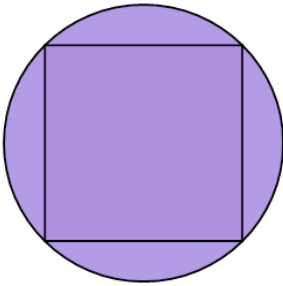
<b>a</b>	<b>b</b>	<b>c</b>
$2\sqrt{\frac{2}{2\pi}}$	<b>8</b>	$2\sqrt{\frac{4}{2}}$
<b>d</b>	<b>e</b>	<b>f</b>
$2\sqrt{\frac{4}{2\pi}}$	$(\sqrt{4})^2 \pi$	$\frac{4^2}{2} \pi$

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



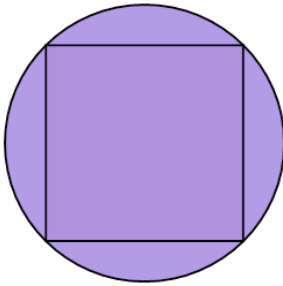
<b>a</b>	<b>b</b>	<b>c</b>
$\frac{13^2}{2} \pi$	$2\sqrt{\frac{5}{2\pi}}$	$\frac{13}{\pi}$
<b>d</b>	<b>e</b>	
$\frac{13}{2} \sqrt{2}$	$2\sqrt{\frac{10}{2\pi}}$	

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



<b>a</b>	<b>b</b>	<b>c</b>
$2\sqrt{\frac{6}{2\pi}}$	$\frac{18^2}{2} \pi$	$\frac{5^2}{2} \pi$
<b>d</b>	<b>e</b>	<b>f</b>
$\frac{6}{2} \sqrt{2}$	$2\sqrt{\frac{5}{2}}$	$2\sqrt{\frac{3}{2\pi}}$

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



<b>a</b>	<b>b</b>	<b>c</b>
$2\sqrt{\frac{12}{2\pi}}$	$2\sqrt{\frac{12}{2}}$	$2\sqrt{\frac{6}{2\pi}}$
<b>d</b>	<b>e</b>	
$2\sqrt{\frac{72}{2\pi}}$	<b>18π</b>	