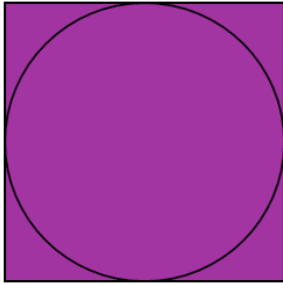




Math worksheet on 'Inscribed Circle in Square - Square Area to Circle Area (Level 1)'. Part of a broader unit on 'Inscribed Squares and Circles - Intro'

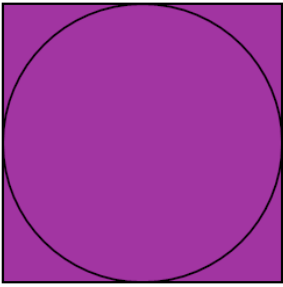
Learn online: [app.mobius.academy/math/units/inscribed\\_squares\\_and\\_circles\\_intro/](http://app.mobius.academy/math/units/inscribed_squares_and_circles_intro/)

**1** Find the area of the circle inscribed in a square with area 49



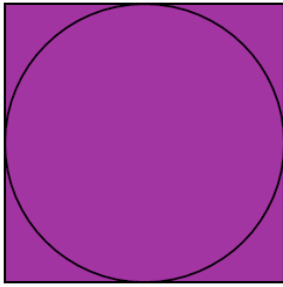
<b>a</b>	<b>b</b>	<b>c</b>
$14\pi$	$\frac{49^2}{2}\pi$	$4\sqrt{25}$
<b>d</b>	<b>e</b>	<b>f</b>
$\frac{49}{4}\pi$	$49\pi$	$\frac{98^2}{2}\pi$

**2** Find the area of the circle inscribed in a square with area 64



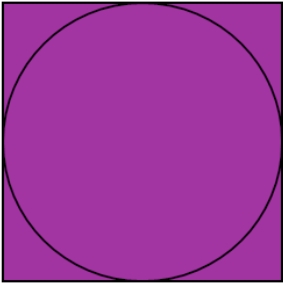
<b>a</b>	<b>b</b>	<b>c</b>
$\frac{16}{2}\sqrt{2}$	$32\pi$	$2\sqrt{\frac{16}{2\pi}}$
<b>d</b>	<b>e</b>	<b>f</b>
$\frac{16}{\pi}$	$2\sqrt{\frac{32}{2}}$	$\frac{64}{4}\pi$

**3** Find the area of the circle inscribed in a square with area 9



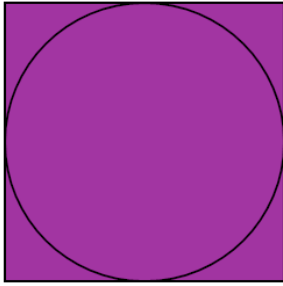
<b>a</b>	<b>b</b>	<b>c</b>
$\frac{18}{\pi}$	$\frac{5}{\pi}$	$\frac{6^2}{2}\pi$
<b>d</b>	<b>e</b>	<b>f</b>
$\frac{9}{4}\pi$	$4\sqrt{9}$	$5\pi$

**4** Find the area of the circle inscribed in a square with area 16



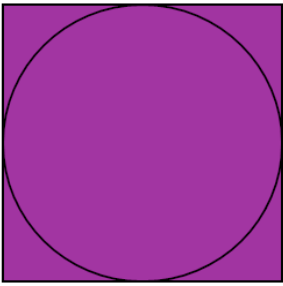
<b>a</b>	<b>b</b>	<b>c</b>
$\frac{8^2}{2}\pi$	$\frac{32}{2}\sqrt{2}$	$(\sqrt{16})^2\pi$
<b>d</b>	<b>e</b>	<b>f</b>
$\frac{16}{4}\pi$	$8\pi$	$2\sqrt{\frac{8}{2}}$

**5** Find the area of the circle inscribed in a square with area 36



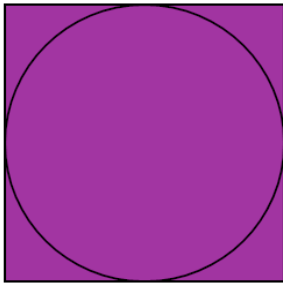
<b>a</b>	<b>b</b>	<b>c</b>
$36$	$\frac{36^2}{2}\pi$	$2\sqrt{\frac{72}{2}}$
<b>d</b>	<b>e</b>	<b>f</b>
$12\pi$	$\frac{36}{4}\pi$	$\frac{36^2}{2}\pi$

**6** Find the area of the circle inscribed in a square with area 4



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

**7** Find the area of the circle inscribed in a square with area 25



<b>a</b>	<b>b</b>	<b>c</b>
$\frac{13^2}{2}\pi$	$\frac{25}{4}\pi$	$(\sqrt{25})^2\pi$
<b>d</b>	<b>e</b>	<b>f</b>
$2\sqrt{\frac{50}{2\pi}}$	$4\sqrt{13}$	$\frac{10}{\pi}$