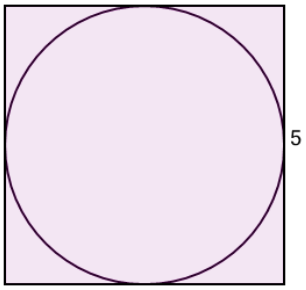
Math worksheet on *'Inscribed Circle in Square - Square Side Length to Circle Area (Level 1)'*. Part of a broader unit on *'Inscribed Squares and Circles - Intro'*

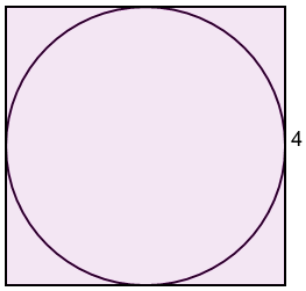
Learn online: app.mobius.academy/math/units/inscribed_squares_and_circles_intro/

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



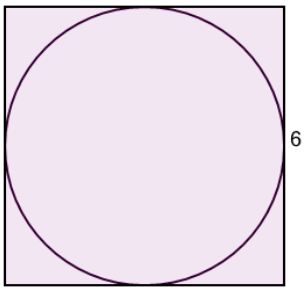
a	b	c
$(\frac{5}{2})^2\pi$	$(\frac{2}{2})^2\pi$	$2\sqrt{\frac{50}{2\pi}}$
d	**e**	**f**
$\frac{50^2}{2}\pi$	$\frac{10}{\pi}$	$\frac{10^2}{2}\pi$

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



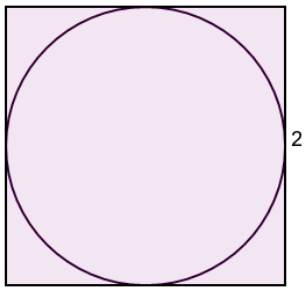
a	b	c
$2\sqrt{\frac{8}{2\pi}}$	$\frac{32}{\pi}$	$(\sqrt{8})^2\pi$
d	**e**	**f**
8π	$(\frac{4}{2})^2\pi$	$(\frac{2}{2})^2\pi$

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



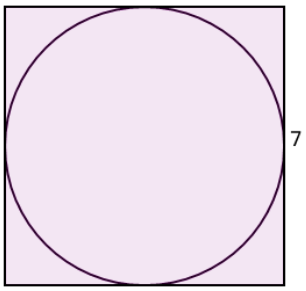
a	b	c
$(\frac{3}{2})^2\pi$	$4\sqrt{18}$	$\frac{18^2}{2}\pi$
d	**e**	**f**
$\frac{18}{\pi}$	$(\frac{6}{2})^2\pi$	$(\sqrt{36})^2\pi$

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



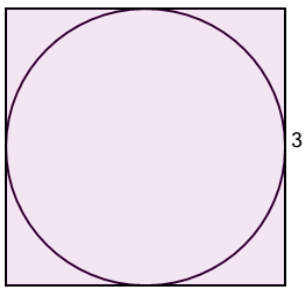
a	b	c
$(\frac{2}{2})^2\pi$	$(\frac{1}{2})^2\pi$	$2\sqrt{\frac{4}{2\pi}}$
d	**e**	**f**
4π	$\frac{2}{\pi}$	$(\sqrt{2})^2\pi$

5 Find the area of the circle inscribed in a square with side length 7



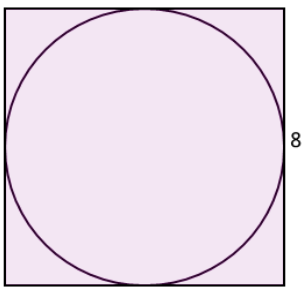
a	b	c
$\frac{98^2}{2}\pi$	$(\frac{7}{2})^2\pi$	$(\frac{3}{2})^2\pi$
d	**e**	**f**
$\frac{98}{2}\sqrt{2}$	$2\sqrt{\frac{49}{2}}$	$4\sqrt{25}$

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



a	b	c
6π	$\frac{5}{2}\sqrt{2}$	$(\sqrt{5})^2\pi$
d	**e**	**f**
9	$(\frac{1}{2})^2\pi$	$(\frac{3}{2})^2\pi$

7 Find the area of the circle inscribed in a square with side length 8



a	b	c
$\frac{16^2}{2}\pi$	$2\sqrt{\frac{128}{2}}$	$\frac{64^2}{2}\pi$
d	**e**	**f**
$(\frac{8}{2})^2\pi$	$(\frac{4}{2})^2\pi$	$(\sqrt{64})^2\pi$