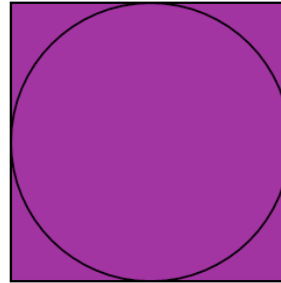# mobius

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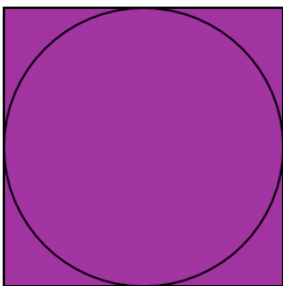
Learn online: app.mobius.academy/math/units/inscribed_squares_and_circles_intro/

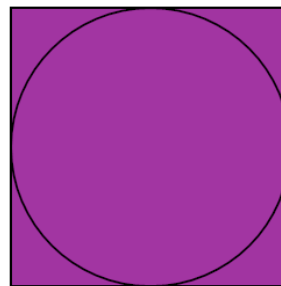**1** Find the area of the circle inscribed in a square with area 16

a	b	c
8π	$\dfrac{16}{4}\pi$	$(\sqrt{8})^2\pi$

d	e	f
$2\sqrt{\dfrac{8}{2}}$	$\dfrac{32}{4}\pi$	$\dfrac{16}{2}^2\pi$

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2 Find the area of the circle inscribed in a square with area 25

a	b	c
$2\sqrt{\dfrac{25}{2\pi}}$	$\dfrac{10}{2}^2\pi$	$2\sqrt{\dfrac{10}{2}}$

d	e	f
$\dfrac{25}{4}\pi$	$\dfrac{50}{4}\pi$	$2\sqrt{\dfrac{10}{2\pi}}$

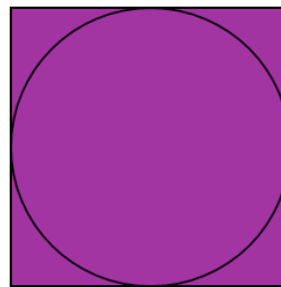**3** Find the area of the circle inscribed in a square with area 9

a	b	c
$\dfrac{9}{4}\pi$	$\dfrac{9}{2}^2\pi$	$(\sqrt{9})^2\pi$

d	e	f
9	$\dfrac{18}{4}\pi$	$\dfrac{5}{2}^2\pi$

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

a	b	c
$\dfrac{4}{2}^2\pi$	$\dfrac{8}{4}\pi$	$\dfrac{4}{4}\pi$

d	e	
$4\sqrt{8}$	4π	

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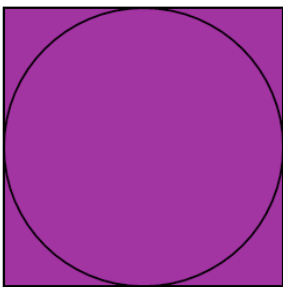
5 Find the area of the circle inscribed in a square with area 36

a	b	c
$\dfrac{36}{4}\pi$	$\dfrac{72}{2}^2\pi$	$\dfrac{72}{2}\sqrt{2}$

d	e	f
72	$2\sqrt{\dfrac{72}{2\pi}}$	$\dfrac{72}{4}\pi$

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6 Find the area of the circle inscribed in a square with area 49
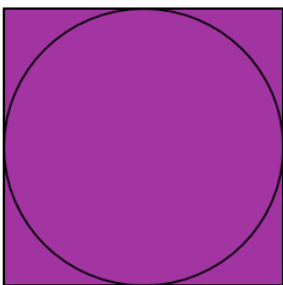
a	b	c
$\dfrac{25}{\pi}$	$2\sqrt{\dfrac{14}{2\pi}}$	$\dfrac{49}{2}^2\pi$

d	e	f
$\dfrac{49}{4}\pi$	$\dfrac{98}{4}\pi$	$4\sqrt{25}$