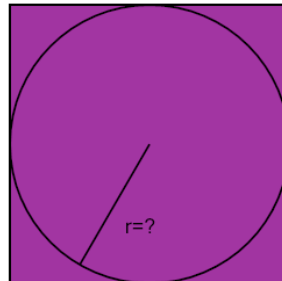




Math worksheet on 'Inscribed Circle in Square - Square Area to Circle Radius (Level 1)'. Part of a broader unit on 'Inscribed Squares and Circles - Intro'

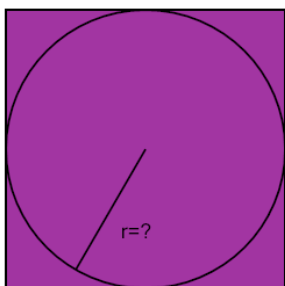
Learn online: app.mobius.academy/math/units/inscribed_squares_and_circles_intro/

1 Find the radius of the circle inscribed in a square with area 36



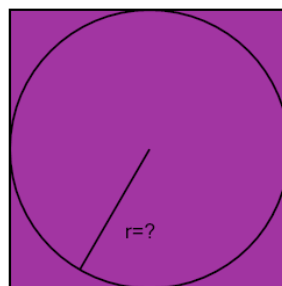
a	b	c
$\frac{\sqrt{18}}{2}$	$(\sqrt{36})^2 \pi$	$2\sqrt{\frac{72}{2\pi}}$
d	e	f
$\frac{\sqrt{36}}{2}$	$\frac{18}{\pi}$	72π

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



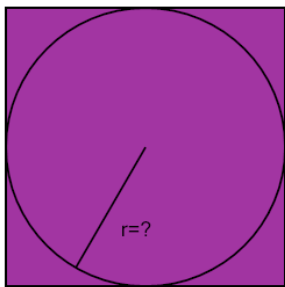
a	b	c
$\frac{4^2}{2} \pi$	$\frac{4^2}{2} \pi$	$\frac{\sqrt{2}}{2}$
d	e	f
$4\sqrt{4}$	$\frac{8^2}{2} \pi$	$\frac{\sqrt{4}}{2}$

3 Find the radius of the circle inscribed in a square with area 49



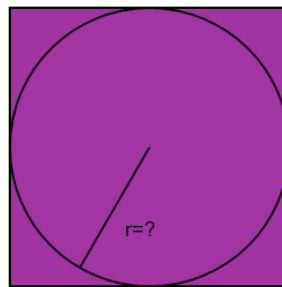
a	b	c
$\frac{\sqrt{24}}{2}$	$\frac{\sqrt{49}}{2}$	14
d	e	f
98π	$\frac{98^2}{2} \pi$	98

4 Find the radius of the circle inscribed in a square with area 9



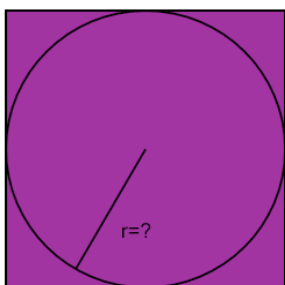
a	b	c
$(\sqrt{6})^2 \pi$	$2\sqrt{\frac{9}{2\pi}}$	$\frac{\sqrt{9}}{2}$
d	e	f
$\frac{5^2}{2} \pi$	$\frac{\sqrt{4}}{2}$	$\frac{9^2}{2} \pi$

5 Find the radius of the circle inscribed in a square with area 25



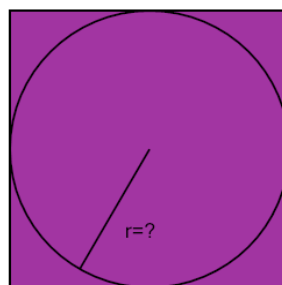
a	b	c
$\frac{50}{\pi}$	$\frac{13^2}{2} \pi$	$\frac{50^2}{2} \pi$
d	e	f
$\frac{\sqrt{12}}{2}$	$(\sqrt{25})^2 \pi$	$\frac{\sqrt{25}}{2}$

6 Find the radius of the circle inscribed in a square with area 16



a	b	c
$\frac{\sqrt{16}}{2}$	$\frac{32^2}{2} \pi$	$2\sqrt{\frac{16}{2}}$
d	e	f
$\frac{8^2}{2} \pi$	$2\sqrt{\frac{32}{2\pi}}$	$\frac{\sqrt{8}}{2}$

7 Find the radius of the circle inscribed in a square with area 64



a	b	c
$\frac{\sqrt{64}}{2}$	$\frac{16^2}{2} \pi$	$(\sqrt{32})^2 \pi$
d	e	f
$4\sqrt{16}$	$2\sqrt{\frac{16}{2}}$	$\frac{\sqrt{32}}{2}$