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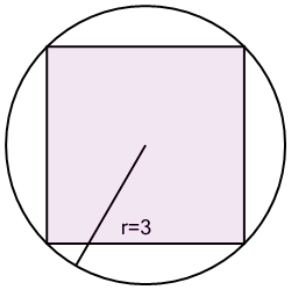
Math worksheet on *'Inscribed Square in Circle - Circle Radius to Square Area (Level 1)'*. Part of a broader unit on *'Inscribed Squares and Circles - Intro'*

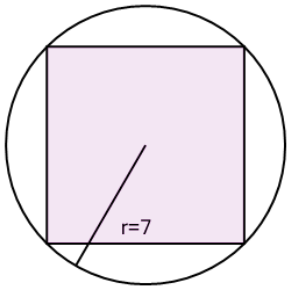
Learn online: app.mobius.academy/math/units/inscribed_squares_and_circles_intro/

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



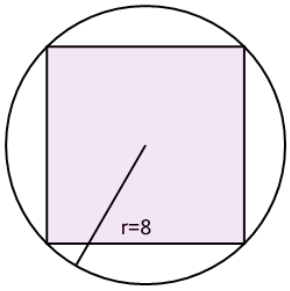
a	b	c
$\frac{9}{2}^2\pi$	$\frac{9}{2}\sqrt{2}$	$\frac{18}{2}^2\pi$
d	**e**	**f**
$\frac{6}{2}^2\pi$	9	18

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



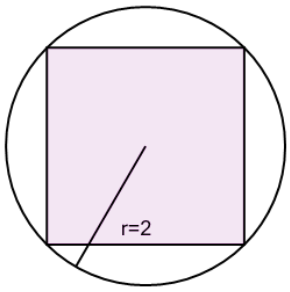
a	b	c
$\frac{98}{2}^2\pi$	98	$\frac{49}{2}^2\pi$
d	**e**	**f**
49	$\frac{14}{2}^2\pi$	$\frac{98}{\pi}$

3 Find the area of the square inscribed in a circle with radius 8



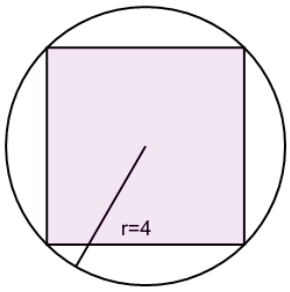
a	b	c
$\frac{64}{2}^2\pi$	$\frac{64}{2}\sqrt{2}$	$\frac{32}{2}^2\pi$
d	**e**	**f**
64π	64	128

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



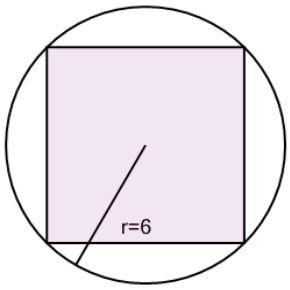
a	b	c
4	$2\sqrt{\frac{2}{2\pi}}$	8
d	**e**	**f**
$\frac{4}{2}^2\pi$	$\frac{4}{2}\sqrt{2}$	$\frac{8}{\pi}$

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



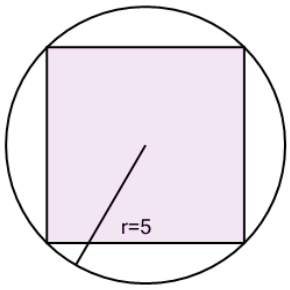
a	b	c
32	$2\sqrt{\frac{16}{2\pi}}$	$\frac{16}{2}\sqrt{2}$
d	**e**	**f**
16	$\frac{8}{2}^2\pi$	$\frac{8}{2}^2\pi$

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



a	b	c
36	72	$\frac{18}{2}\sqrt{2}$
d	**e**	
$\frac{36}{\pi}$	$\frac{72}{2}^2\pi$	

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



a	b	c
25	50	$4\sqrt{50}$
d	**e**	**f**
$\frac{13}{\pi}$	10π	25π