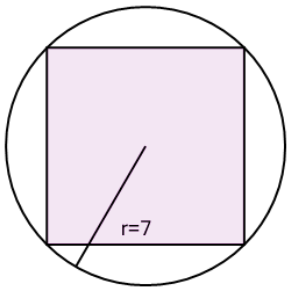
mobius

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'*

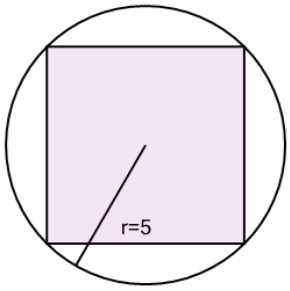
Learn online: app.mobius.academy/math/units/inscribed_squares_and_circles_intro/

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



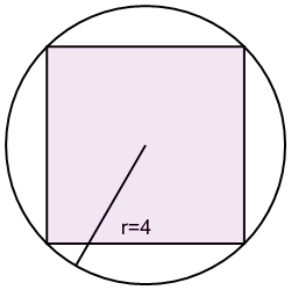
a	b	c
49	$\frac{98^2}{2}\pi$	$\frac{98}{\pi}$
d	**e**	**f**
98	$\frac{49^2}{2}\pi$	$\frac{14^2}{2}\pi$

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



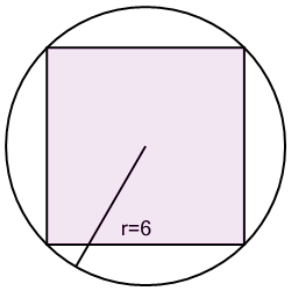
a	b	c
$\frac{13}{\pi}$	25	$4\sqrt{50}$
d	**e**	**f**
50	25π	10π

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



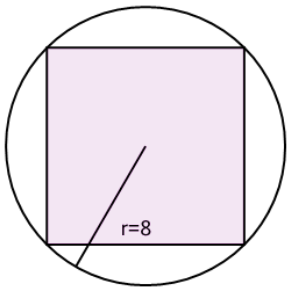
a	b	c
$\frac{16}{2}\sqrt{2}$	32	16
d	**e**	**f**
$\frac{8^2}{2}\pi$	$\frac{8^2}{2}\pi$	$2\sqrt{\frac{16}{2\pi}}$

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



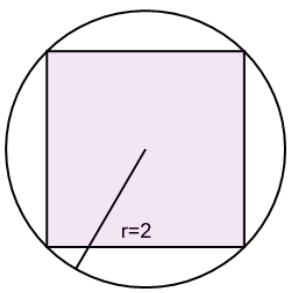
a	b	c
72	$\frac{72^2}{2}\pi$	$\frac{18}{2}\sqrt{2}$
d	**e**	
$\frac{36}{\pi}$	36	

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



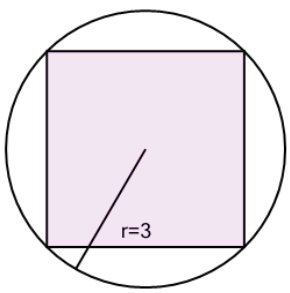
a	b	c
128	$\frac{64^2}{2}\pi$	64
d	**e**	**f**
$\frac{64}{2}\sqrt{2}$	$\frac{32^2}{2}\pi$	64π

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



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

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



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