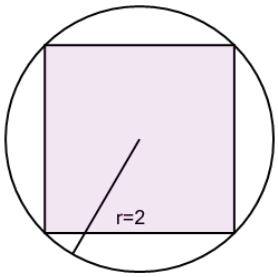
Name

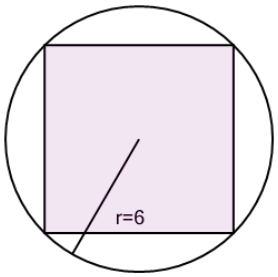
Inscribed Square in Circle - Circle Radius to Square Area

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



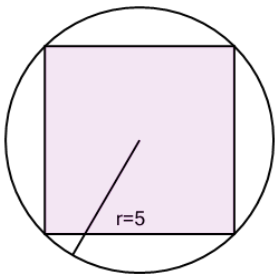
A	B	C
$\frac{4}{2}^2\pi$	4	$\frac{8}{\pi}$
D	**E**	**F**
$\frac{4}{2}\sqrt{2}$	8	$2\sqrt{\frac{2}{2\pi}}$

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



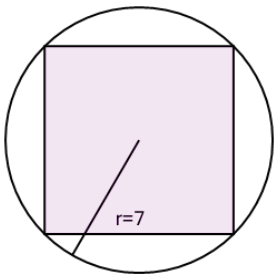
A	B	C
36	$\frac{36}{\pi}$	$\frac{18}{2}\sqrt{2}$
D	**E**	
72	$\frac{72^2}{2}\pi$	

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



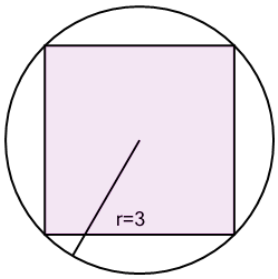
A	B	C
$\frac{13}{\pi}$	25π	$4\sqrt{50}$
D	**E**	**F**
25	10π	50

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



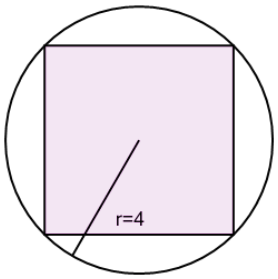
A	B	C
$\frac{14}{2}^2\pi$	$\frac{98}{\pi}$	$\frac{98}{2}^2\pi$
D	**E**	**F**
49	$\frac{49^2}{2}\pi$	98

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



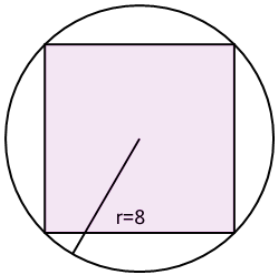
A	B	C
$\frac{9}{2}^2\pi$	$\frac{6}{2}^2\pi$	$\frac{9}{2}\sqrt{2}$
D	**E**	**F**
$\frac{18}{2}^2\pi$	18	9

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



A	B	C
$\frac{8^2}{2}\pi$	$2\sqrt{\frac{16}{2\pi}}$	32
D	**E**	**F**
$\frac{8}{2}^2\pi$	$\frac{16}{2}\sqrt{2}$	16

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



A	B	C
$\frac{32}{2}^2\pi$	$\frac{64}{2}^2\pi$	128
D	**E**	**F**
$\frac{64}{2}\sqrt{2}$	64π	64