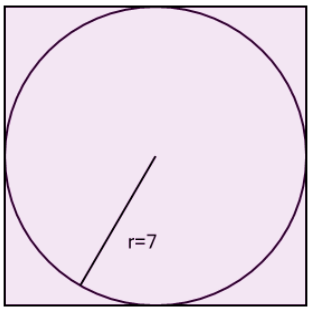
Name

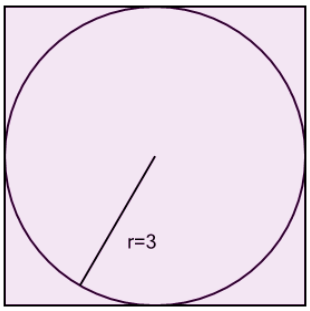
Inscribed Circle in Square - Circle Radius to Square Side Length

1 Find the side length of a square that has an inscribed circle with radius 7



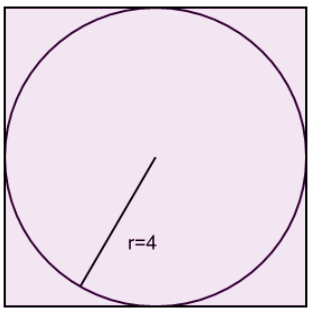
A	B	C
$\frac{25}{2}^2\pi$	$2\sqrt{\frac{14}{2}}$	$(\sqrt{98})^2\pi$
D	**E**	**F**
7	$\frac{25}{2}\sqrt{2}$	14

2 Find the side length of a square that has an inscribed circle with radius 3



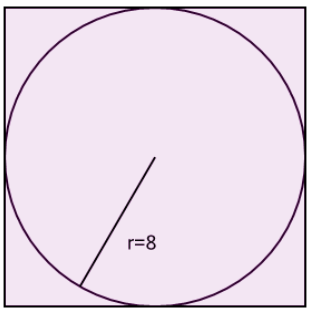
A	B	C
3	$\frac{5}{2}^2\pi$	$2\sqrt{\frac{9}{2\pi}}$
D	**E**	**F**
5	$4\sqrt{6}$	6

3 Find the side length of a square that has an inscribed circle with radius 4



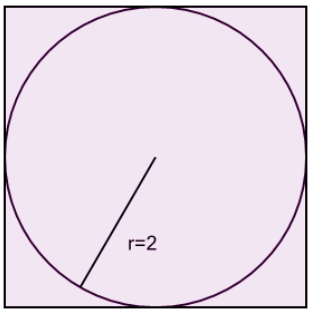
A	B	C
8	$\frac{8}{2}^2\pi$	$(\sqrt{16})^2\pi$
D	**E**	**F**
4	$\frac{32}{2}\sqrt{2}$	$\frac{8}{\pi}$

4 Find the side length of a square that has an inscribed circle with radius 8



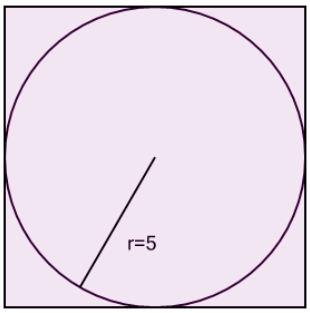
A	B	C
8	16	$2\sqrt{\frac{128}{2\pi}}$
D	**E**	**F**
$\frac{64}{\pi}$	$\frac{64}{2}^2\pi$	128π

5 Find the side length of a square that has an inscribed circle with radius 2



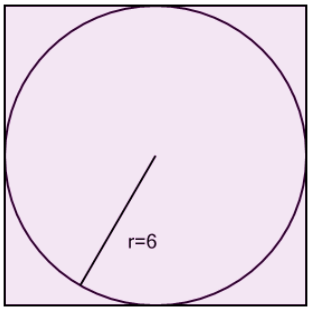
A	B	C
$\frac{4}{2}^2\pi$	4	$2\sqrt{\frac{4}{2\pi}}$
D	**E**	**F**
$(\sqrt{4})^2\pi$	2	$4\sqrt{4}$

6 Find the side length of a square that has an inscribed circle with radius 5



A	B	C
10	5	$\frac{10}{\pi}$
D	**E**	
$\frac{50}{2}^2\pi$	$4\sqrt{50}$	

7 Find the side length of a square that has an inscribed circle with radius 6



A	B	C
$(\sqrt{18})^2\pi$	$4\sqrt{36}$	12
D	**E**	**F**
$\frac{36^2}{2}\pi$	$4\sqrt{18}$	6