mobius

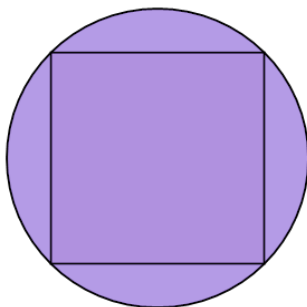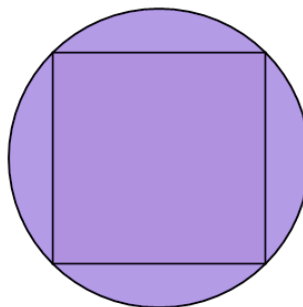## Inscribed Square in Circle - Circle Area to Square Area

1 Find the area of the square inscribed in a circle of area 6
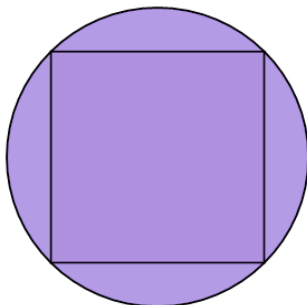
A $2\sqrt{\dfrac{12}{2\pi}}$ B $\dfrac{6}{\pi}$ C $4\sqrt{18}$

D $\dfrac{12}{\pi}$ E $\dfrac{36^2}{2}\pi$ F $2\sqrt{\dfrac{12}{2}}$

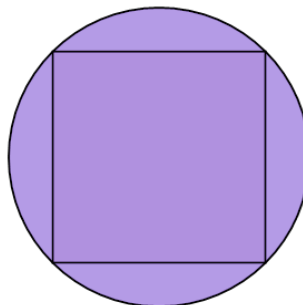**2** Find the area of the square inscribed in a circle of area 2

A $\dfrac{2^2}{2}\pi$ B 4 C $2\sqrt{\dfrac{8}{2\pi}}$

D $2\sqrt{\dfrac{4}{2\pi}}$ E $\dfrac{2}{\pi}$ F $\dfrac{4}{\pi}$

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

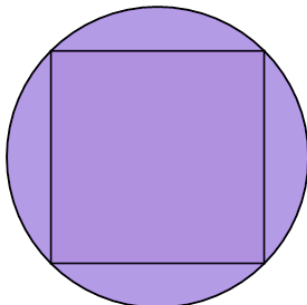A $\dfrac{64^2}{2}\pi$ B 64 C $\dfrac{8}{\pi}$

D $\dfrac{16}{\pi}$ E $(\sqrt{32})^2\pi$ F 128π

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

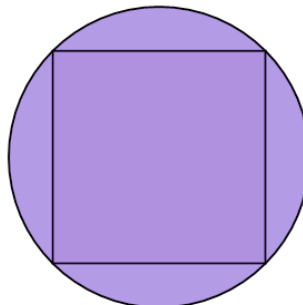A $4\sqrt{13}$ B $\dfrac{5}{\pi}$ C $\dfrac{13}{\pi}$

D $\dfrac{50^2}{2}\pi$ E $\dfrac{10}{\pi}$ F $\dfrac{25}{\pi}$

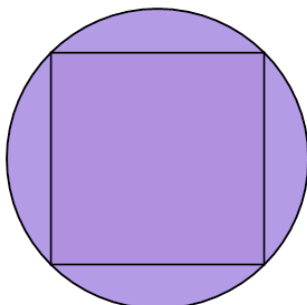**5** Find the area of the square inscribed in a circle of area 7

A $(\sqrt{25})^2\pi$ B $\dfrac{49^2}{2}\pi$ C $\dfrac{98}{2}\sqrt{2}$

D $\dfrac{14^2}{2}\pi$ E $\dfrac{7}{\pi}$ F $\dfrac{14}{\pi}$

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

A $\dfrac{4}{\pi}$ B $\dfrac{16}{2}\sqrt{2}$ C $(\sqrt{8})^2\pi$

D $\dfrac{8}{\pi}$ E $\dfrac{8^2}{2}\pi$ F $2\sqrt{\dfrac{8}{2\pi}}$

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

A $\dfrac{6^2}{2}\pi$ B $\dfrac{3}{\pi}$ C $\dfrac{18}{\pi}$

D 5 E $\dfrac{6}{\pi}$ F $2\sqrt{\dfrac{9}{2\pi}}$