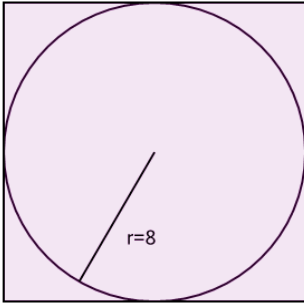




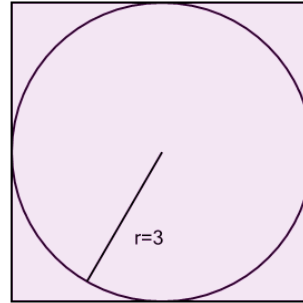
Inscribed Circle in Square - Circle Radius to Square Area

1 Find the area of the square that has an inscribed circle with radius 8



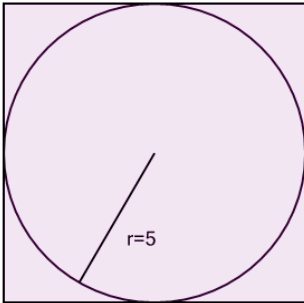
- | | | |
|---------------------------|----------------------|-------------------------|
| A | B | C |
| $2\sqrt{\frac{64}{2\pi}}$ | $\frac{64^2}{2} \pi$ | $\frac{16}{2} \sqrt{2}$ |
| D | E | F |
| 256 | 128 | $\frac{16^2}{2} \pi$ |

2 Find the area of the square that has an inscribed circle with radius 3



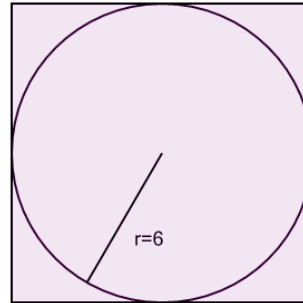
- | | | |
|---------------------|--------------------------|----|
| A | B | C |
| $4\sqrt{5}$ | $(\sqrt{6})^2 \pi$ | 36 |
| D | E | F |
| $\frac{5^2}{2} \pi$ | $2\sqrt{\frac{9}{2\pi}}$ | 18 |

3 Find the area of the square that has an inscribed circle with radius 5



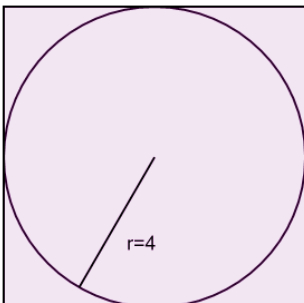
- | | | |
|-------------------------|------------------|---------------------------|
| A | B | C |
| $\frac{25}{2} \sqrt{2}$ | $\frac{25}{\pi}$ | $2\sqrt{\frac{50}{2\pi}}$ |
| D | E | F |
| $\frac{13}{2} \sqrt{2}$ | 100 | 50 |

4 Find the area of the square that has an inscribed circle with radius 6



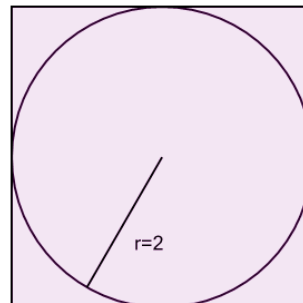
- | | | |
|---------------------------|------------------|------------------------|
| A | B | C |
| 144 | 72 | $\frac{12}{\pi}$ |
| D | E | F |
| $2\sqrt{\frac{72}{2\pi}}$ | $\frac{36}{\pi}$ | $2\sqrt{\frac{18}{2}}$ |

5 Find the area of the square that has an inscribed circle with radius 4



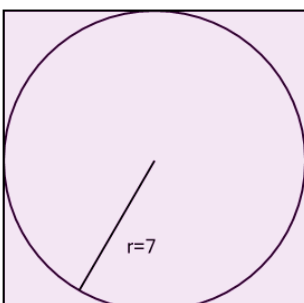
- | | | |
|---------------------|-----------------------|------------------|
| A | B | C |
| $\frac{8^2}{2} \pi$ | 8π | 32 |
| D | E | F |
| 64 | $2\sqrt{\frac{8}{2}}$ | $\frac{32}{\pi}$ |

6 Find the area of the square that has an inscribed circle with radius 2



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

7 Find the area of the square that has an inscribed circle with radius 7



- | | | |
|----------------------|----------------------|---------------------------|
| A | B | C |
| $\frac{49}{\pi}$ | 196 | $2\sqrt{\frac{25}{2\pi}}$ |
| D | E | F |
| $\frac{98^2}{2} \pi$ | $\frac{49^2}{2} \pi$ | 98 |