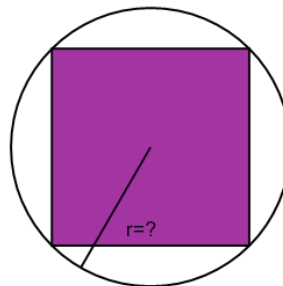




Math worksheet on 'Inscribed Square in Circle - Square Area to Circle Radius (Level 1)'. Part of a broader unit on 'Inscribed Squares and Circles - Intro'

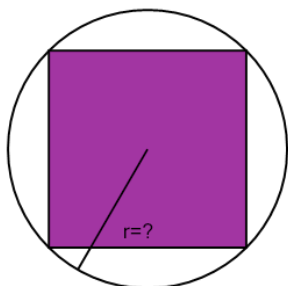
Learn online: [app.mobius.academy/math/units/inscribed\\_squares\\_and\\_circles\\_intro/](http://app.mobius.academy/math/units/inscribed_squares_and_circles_intro/)

**1** Find the radius of the circle that has a square inscribed with area 25



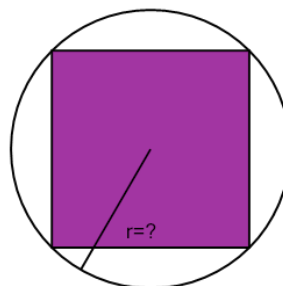
<b>a</b> $\frac{25}{4}\sqrt{2}$	<b>b</b> $\frac{50}{4}\sqrt{2}$	<b>c</b> <b>50</b>
<b>d</b> $2\sqrt{\frac{10}{2\pi}}$	<b>e</b> $4\sqrt{13}$	<b>f</b> $2\sqrt{\frac{25}{2\pi}}$

**2** Find the radius of the circle that has a square inscribed with area 16



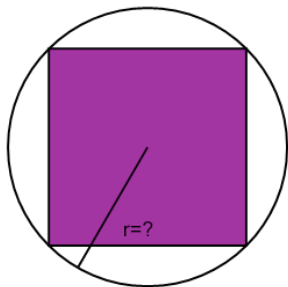
<b>a</b> $\frac{8^2}{2}\pi$	<b>b</b> $\frac{8^2}{2}\pi$	<b>c</b> $\frac{32}{4}\sqrt{2}$
<b>d</b> $\frac{16}{4}\sqrt{2}$	<b>e</b> $4\sqrt{8}$	<b>f</b> $\frac{16}{\pi}$

**3** Find the radius of the circle that has a square inscribed with area 36



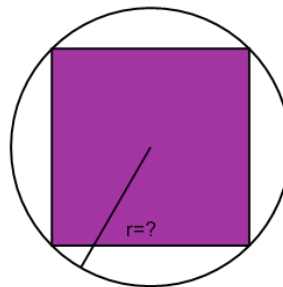
<b>a</b> $\frac{18}{\pi}$	<b>b</b> $36\pi$	<b>c</b> $\frac{36}{4}\sqrt{2}$
<b>d</b> $\frac{72}{2}\sqrt{2}$	<b>e</b> $\frac{36}{\pi}$	<b>f</b> $\frac{72}{4}\sqrt{2}$

**4** Find the radius of the circle that has a square inscribed with area 64



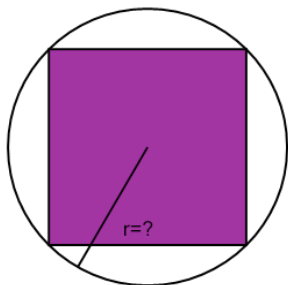
<b>a</b> $\frac{128^2}{2}\pi$	<b>b</b> $(\sqrt{64})^2\pi$	<b>c</b> <b>32</b>
<b>d</b> $\frac{128}{4}\sqrt{2}$	<b>e</b> $\frac{64}{4}\sqrt{2}$	<b>f</b> $2\sqrt{\frac{32}{2}}$

**5** Find the radius of the circle that has a square inscribed with area 9



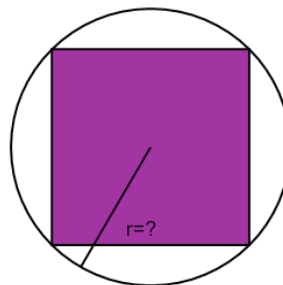
<b>a</b> $\frac{6^2}{2}\pi$	<b>b</b> $\frac{18}{4}\sqrt{2}$	<b>c</b> $\frac{5^2}{2}\pi$
<b>d</b> <b><math>5\pi</math></b>	<b>e</b> $\frac{5}{\pi}$	<b>f</b> $\frac{9}{4}\sqrt{2}$

**6** Find the radius of the circle that has a square inscribed with area 49



<b>a</b> $\frac{14}{\pi}$	<b>b</b> $\frac{98^2}{2}\pi$	<b>c</b> $\frac{25}{2}\sqrt{2}$
<b>d</b> $\frac{98}{4}\sqrt{2}$	<b>e</b> $\frac{14^2}{2}\pi$	<b>f</b> $\frac{49}{4}\sqrt{2}$

**7** Find the radius of the circle that has a square inscribed with area 4



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