Circles Worksheet 5 - Answers

- 1. Given r = 2.0 cm and $\theta = \frac{\pi}{3}$, find s. $\frac{2\pi}{3}$ cm ≈ 2.1 cm.
- 6. Given s = 99.2 mm and r = 87.4 mm, find θ .

 1.14 radians $\approx 65.0^{\circ}$.
- 2. Given r = 9.4 mm and $\theta = \frac{\pi}{4}$, find s. $\frac{9.4\pi}{4}$ mm ≈ 7.4 mm.
- 7. Given r = 4.5 in and $\theta = \frac{\pi}{6}$, find the area of the sector. 5.30 in²
- 3. Given s = 20 ft and $\theta = 90^{\circ}$, find r. $\frac{40}{\pi}$ ft ≈ 12.7 ft.
- 8. Given r = 1.25 ft and $\theta = \frac{\pi}{8}$, find the area of the sector. 0.307 ft²
- 4. Given s=10.2 mi and $\theta=30^\circ,$ find r. $\frac{61.2}{\pi}$ ft ≈ 19.5 ft
- 9. Given A = 19.2 in² and $\theta = \frac{\pi}{4}$, find r. 6.99 in
- 5. Given s=43.2 m and r=21.4 m, find θ . $2.02 \text{ radians} \approx 115.7^{\circ}$
- 10. Given $A=6.10 \mathrm{mm}^2$ and $r=3.40 \mathrm{mm}$, find θ . $1.06 \mathrm{\ radians} \approx 60.5^{\circ}$

©2012 Shmoop University, Inc. All rights reserved. For classroom use only. Want to print this out for your classroom? Go for it. All other reproduction and distribution is prohibited.