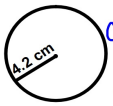
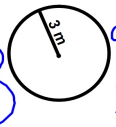
Extra Practice:

Find the Circumference of the following:

1. 

$C = 2\pi r$
$= 2\pi(4.2)$
$= 26.39$ cm

2. 

$C = 2\pi r$
$= 2\pi(3)$
$= 6\pi$
$= 18.85$ m

3.

$C = \pi d$
$= 22\pi$
$= 69.12$ in

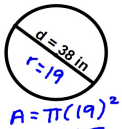
Find the Area of the following: $A = \pi r^2$

4.

$A = \pi(8.4)^2$
$= 221.67 cm^2$

5.

$A = \pi(8)^2$
$= 64\pi$
$= 201.06 m^2$

6. 

$A = \pi(19)^2$
$= 361\pi$
$= 1134.11 in^2$

Extra Practice:

Use the given to find the requested information:

7. **The Area is 50.25 cm².**

   What is the Circle's Radius? 4cm
   What is the Circle's Diameter? 8cm

$A = \pi r^2$
$\frac{50.25}{\pi} = \frac{\pi r^2}{\pi}$
$\sqrt{16} = \sqrt{r^2}$ $r = 4$

8. **The circumference is 25.12 feet.**

   What is the Circle's Radius? 4 ft
   What is the Circle's Area? $50.27 ft^2$

$C = 2\pi r$
$\frac{25.12}{2\pi} = \frac{2\pi r}{2\pi}$
$4 = r$

$A = \pi r^2$
$= \pi(4)^2$
$= 16\pi$
$= 50.27$

9. **The Area is 154 in².**

   What is the Circle's Radius? 7in
   What is the Circle's Circumference? 43.98 in

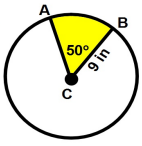
$A = \pi r^2$
$\frac{154}{\pi} = \frac{\pi r^2}{\pi}$
$\sqrt{49} = \sqrt{r^2}$
$r = 7$

$C = 2\pi r$
$= 2\pi(7)$
$= 14\pi$
$= 43.98$

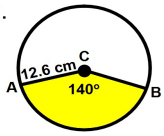
Extra Practice:

Find the length of $\overset{\frown}{AB}$ where the region is shaded:

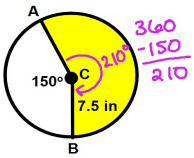
$\frac{\text{part}}{\text{whole}} \cdot \text{circum.}$

10. 

$\frac{50}{360} \cdot 2\pi(9)$
7.85in

11. 

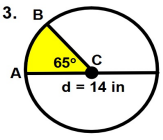
$\frac{140}{360} \cdot 2\pi(12.6)$
30.79 cm

12. 

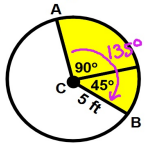
$360 - 150 = 210$
$\frac{210}{360} \cdot 2\pi(7.5)$
27.49 in

Extra Practice:

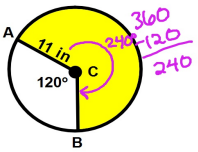
Find the length of $\overset{\frown}{AB}$ where the region is shaded:

13. 

$\frac{65}{360} \cdot \pi(14)$
7.94in

14. 

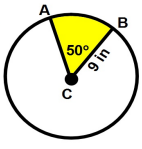
$\frac{135}{360} \cdot 2\pi(5)$
11.78ft

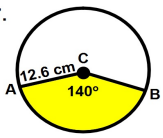
15. 

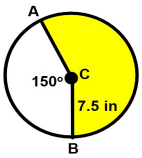
$360 - 120 = 240$
$\frac{240}{360} \cdot 2\pi(11)$
46.08in

Extra Practice:

Find the area of the shaded region.

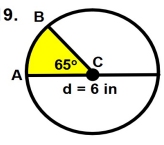
16. 

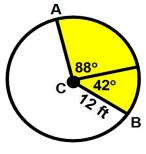
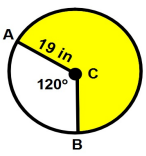
17. 

18. 

Extra Practice:

Find the area of the shaded region.

19. 

20. 

21.