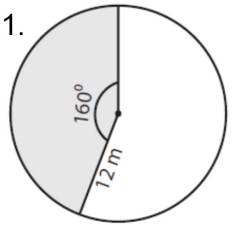
Bellwork Friday, June 6, 2014

Find the area of each shaded sector to the nearest hundredth.

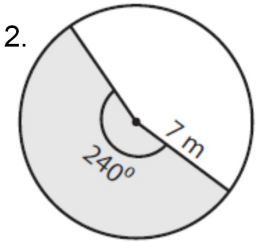
1.



$\frac{160}{360} = \frac{X}{\pi(6)^2}$ part/whole

201.06

2.

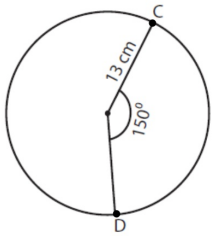


$\frac{240}{360} = \frac{X}{49\pi}$

102.63 m^2

Find the length of each arc to the nearest hundredth.

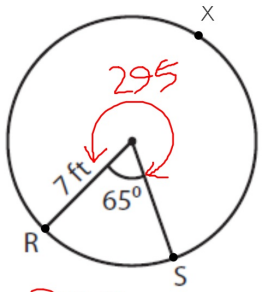
3. $\overset{\frown}{CD}$



$\frac{150}{360} = \frac{X}{2\pi(13)}$

34.03 cm

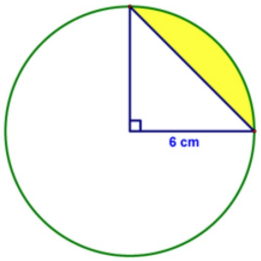
4. $\overset{\frown}{RXS}$

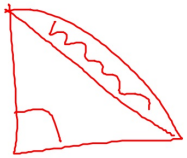


$\frac{295}{360} = \frac{X}{2\pi(7)}$

36.04 ft

5. Find the area of the shaded region to the nearest tenth.



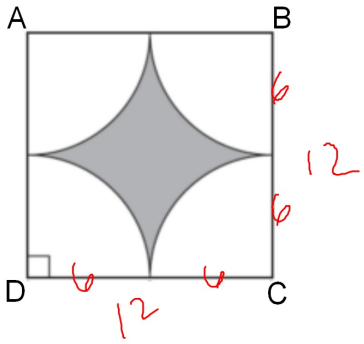


$\frac{90}{360} = \frac{X}{\pi 6^2} \rightarrow 28.3$

$\frac{1}{2}bh = \frac{1}{2}(6)(6) = 18$

$10.3\,cm^2$

6. Find the area of the shaded region to the nearest tenth. The area of the square is 144 in^2.



Sq − circle

$144 - \pi r^2$

$144 - \pi(6)^2$

$= 30.9\,in^2$