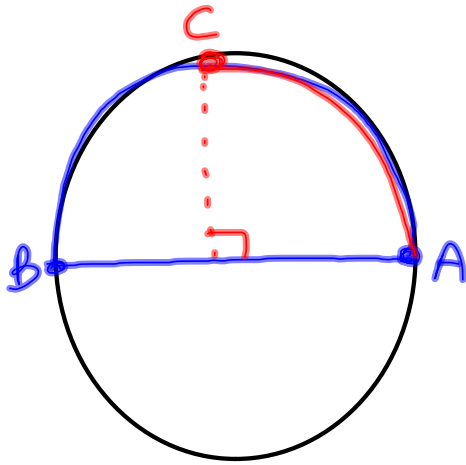


2-27-14

5<sup>th</sup> Geo



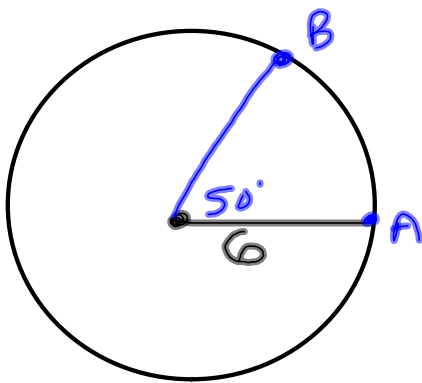
Distance around  
the circle  
is 100 cm.

What is the length of

$\widehat{AB}$ ? 50 cm

What is the length of  $\widehat{AC}$ ?

$$\frac{40}{360} = \frac{1}{9} \text{ of } 100 = 25$$

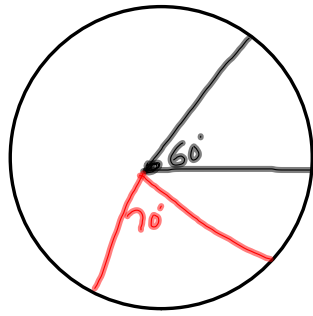


What is circumference?

$$\begin{aligned} C &= \pi \cdot d \\ &= \pi \cdot 12 \\ &= 12\pi \end{aligned}$$

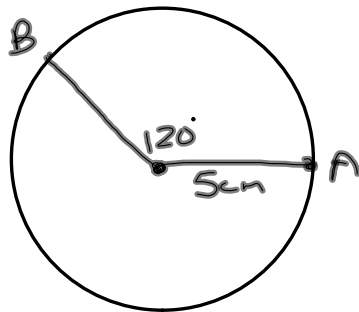
What is length of  $\widehat{AB}$ ?

$$\frac{\cancel{50}}{360} \cdot \frac{12\pi}{1} = \frac{5}{3}\pi$$



$$\frac{60}{360} = \frac{1}{6}$$

$$\frac{70}{360} = \frac{7}{36}$$



What is length of  $\widehat{AB}$ ?

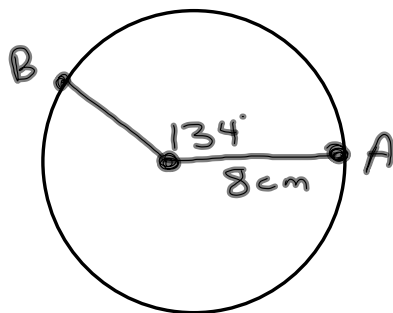
$\frac{120}{360}$  of the circumference

$\frac{1}{3}$  of the circumference

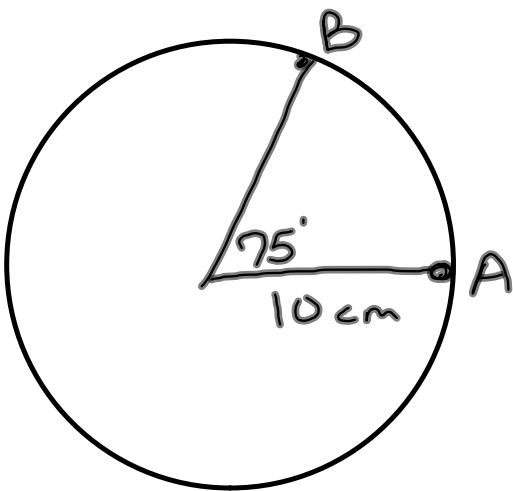
$\frac{1}{3}$  of  $10\pi$

$$\frac{1}{3} \cdot \frac{10\pi}{1} = \frac{10}{3}\pi$$

$3\frac{1}{3}\pi$

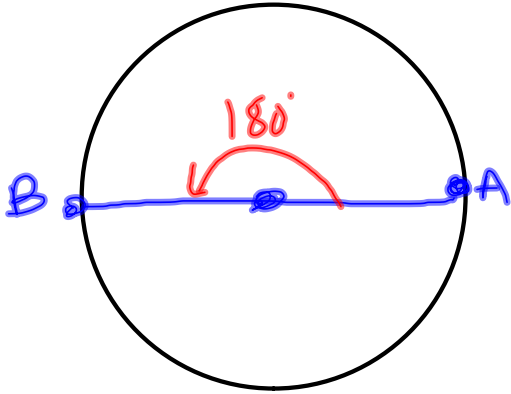


$$\widehat{AB} = ? \quad \frac{134}{360} \cdot 16\pi \approx 18.7 \text{ cm}$$



$$\widehat{AB} = \frac{75}{360} \cdot 20\pi \approx 13.1 \text{ cm}$$

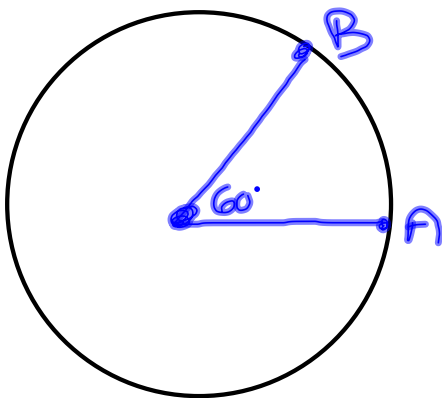
2-27-14  
6<sup>th</sup> Geo



If distance  
around total  
circle is  
100 cm, what  
is it from A  
to B?

$$\widehat{AB} = 50 \text{ cm}$$

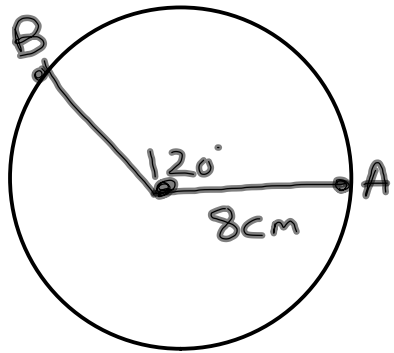
$$\frac{180}{360} \text{ of } 100 \text{ cm}$$



Circle's  
circumference  
is  
12 cm.

$$\widehat{AB} = \frac{60}{360} \text{ of } 12$$

$$\frac{1}{6} \cdot 12 = 2$$

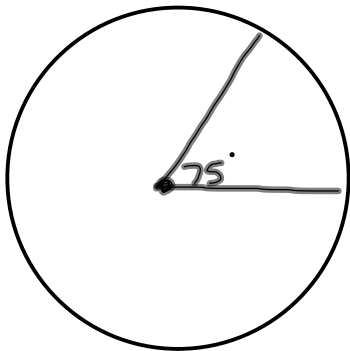


$$C = \pi \cdot d$$

$$\widehat{AB} = \frac{120}{360} \text{ of total circumference}$$

$$\frac{1}{3} \cdot 16\pi$$

$$\approx 16.8 \text{ cm}$$



On the large 12 inch pizza, I got a slice that had a 75° angle at the center. How much pizza did I get?

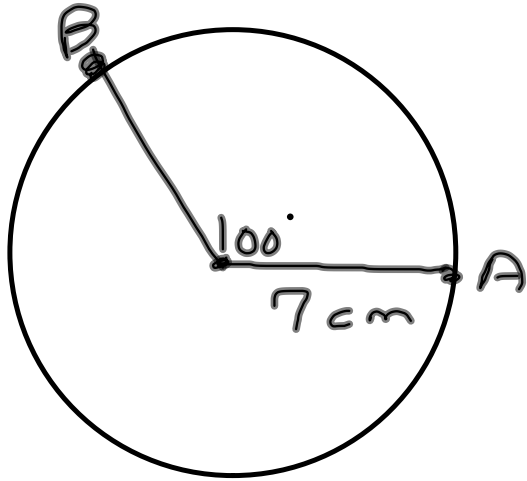
$$\frac{75}{360} \text{ of total area}$$

$$A = \pi r^2$$

$$\pi \cdot 6^2$$

$$\frac{75}{360} \cdot 36\pi$$

$$\approx 23.6 \text{ in}^2$$



$$C = \pi \cdot d$$
$$\pi \cdot 14$$

$$\widehat{AB} = \frac{100}{360} \text{ of Circumference}$$

$$\approx \frac{100}{360} \cdot 14\pi$$

$$\approx 12.2 \text{ cm}$$