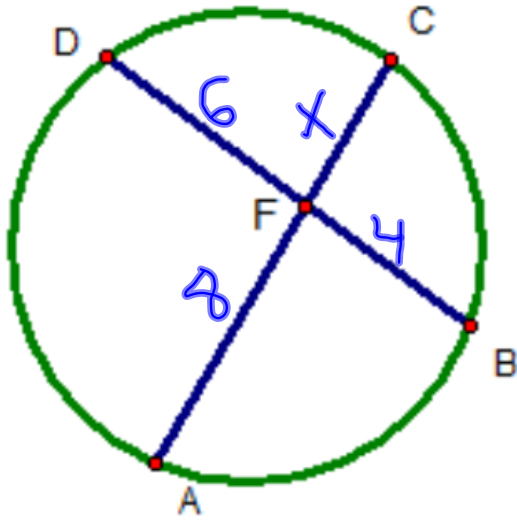


$$6 \cdot 16 = 5(5+x)$$

19

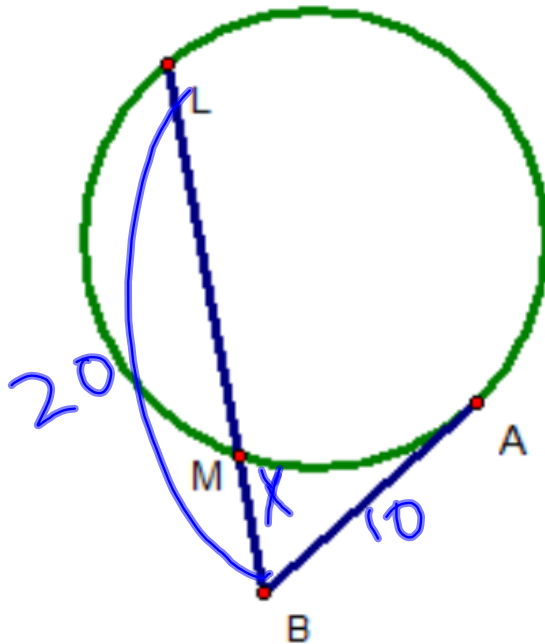


$$8x = 6 \cdot 4$$

$$8x = 24$$

$$x = 3$$

20

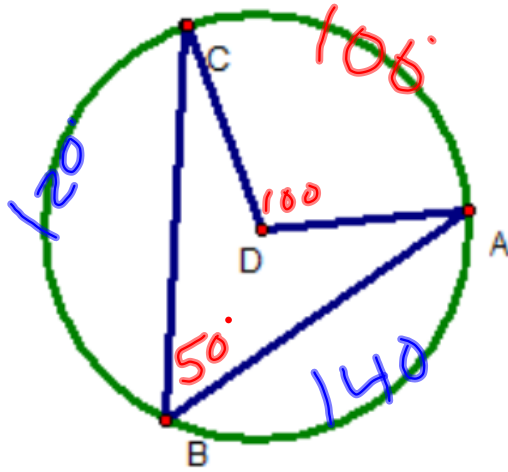


$$x \cdot 20 = 10 \cdot 10$$

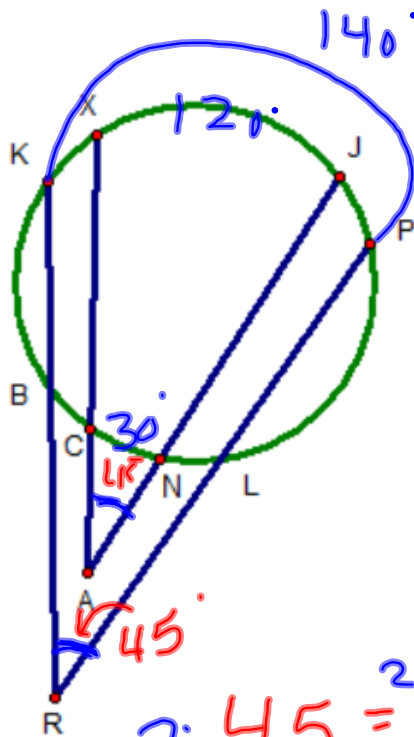
$$x \cdot 20 = 100$$

$$x = 5$$

21



22



$$\angle CAN = \frac{1}{2}(120 - 30)$$

$$= 45^\circ$$

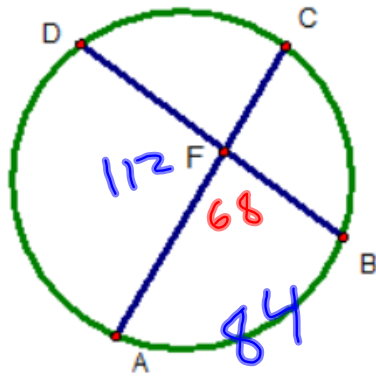
$$\therefore \angle R = 45$$

$$2 \cdot 45 = \frac{1}{2}(140 - \widehat{BL})$$

$$90 = 140 - \widehat{BL}$$

$$\widehat{BL} = 50$$

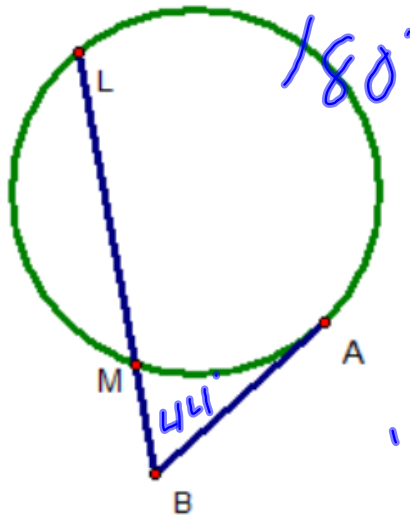
23



$$\widehat{DC} = ?$$

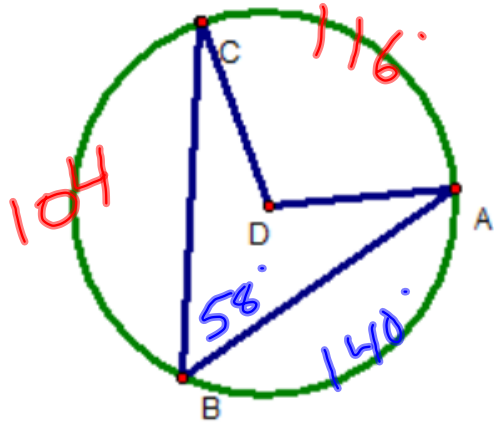
$$68 = \frac{1}{2}(84 + \widehat{DC})$$

24

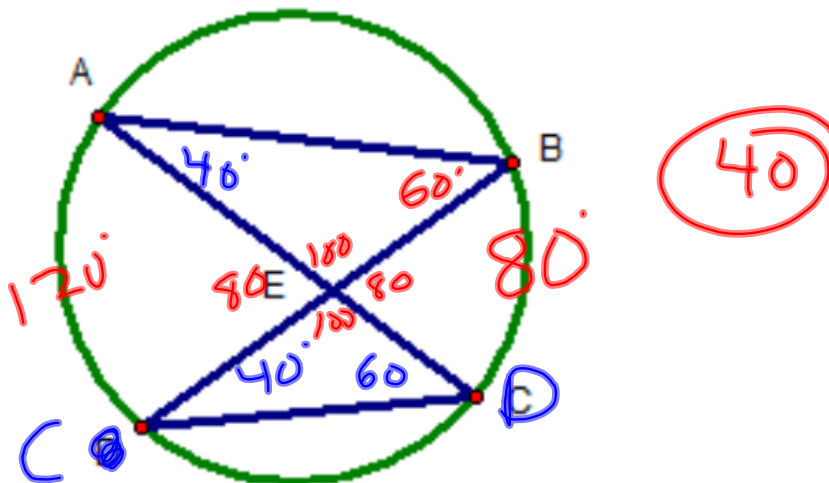


$$44 = \frac{1}{2}(180 - \widehat{MA})$$

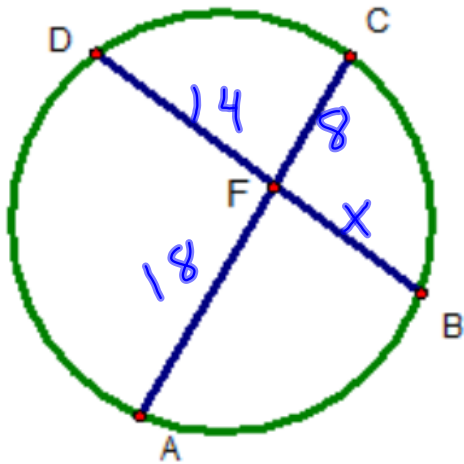
25



26

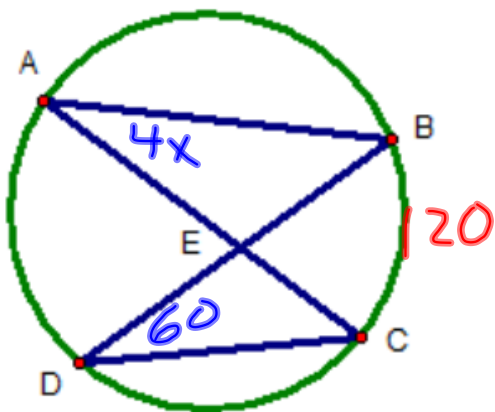


27



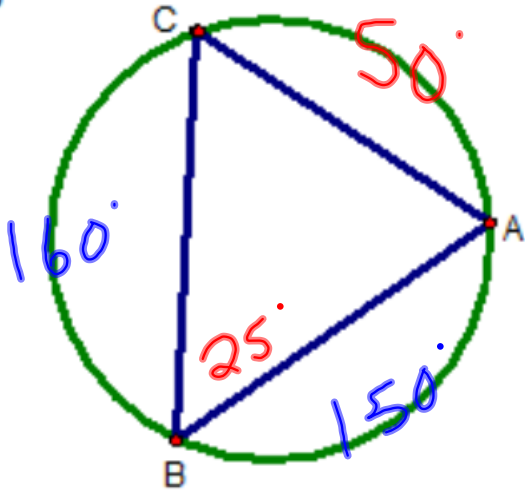
$$14x = 18 \cdot 8$$

28

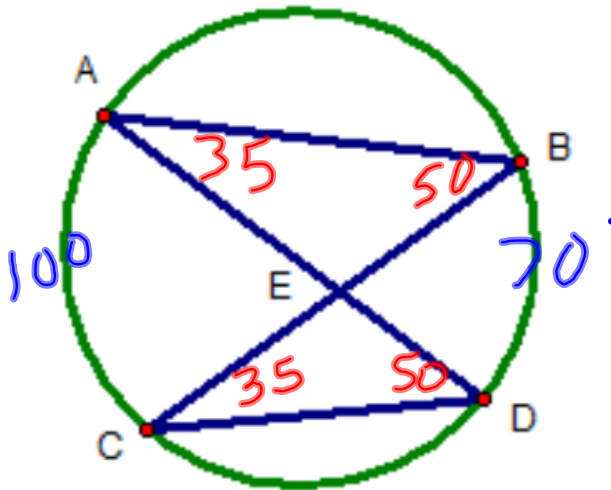


$$4x = 60$$
$$x = 15$$

29



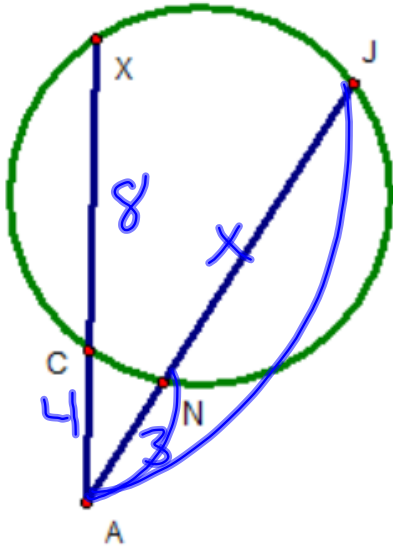
30



$$\angle BAD = 2x$$

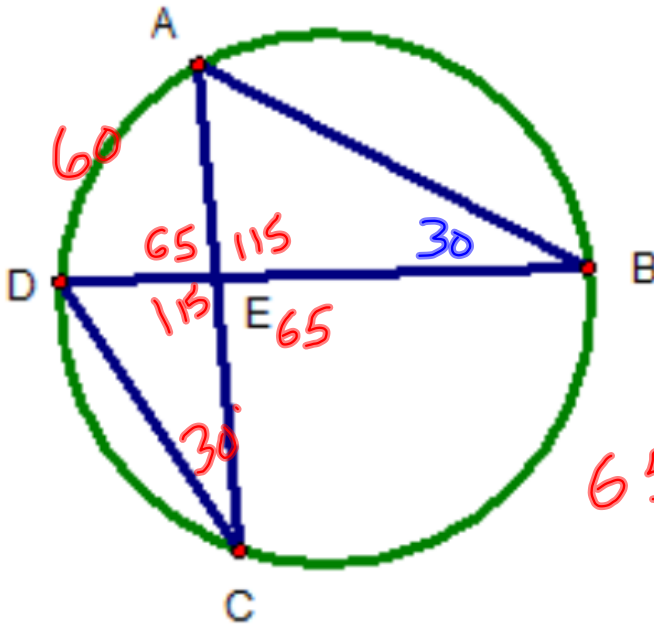
$50^\circ$

31



$$3(3+x) = 4 \cdot 12$$

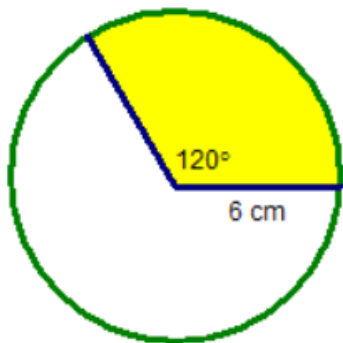
32



$$65 = \frac{1}{2} (60 + \widehat{BC})$$



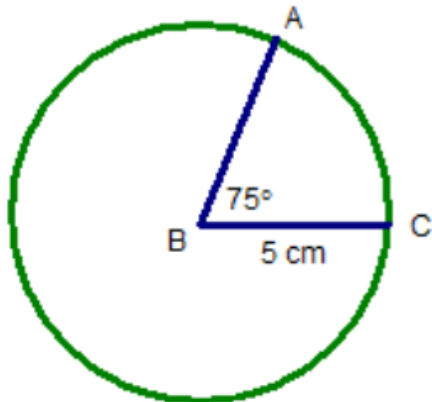
33



Fractional Part of Whole Area

$$\frac{120}{360} \cdot \pi \cdot 6^2$$

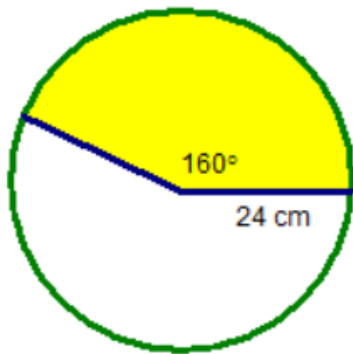
34



Fractional Part of Circum.

$$\frac{75}{360} \cdot \pi \cdot 10$$

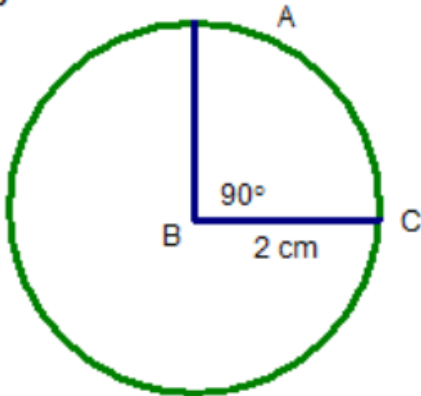
35



Area

$$\frac{160}{360} \cdot \pi \cdot 24^2$$

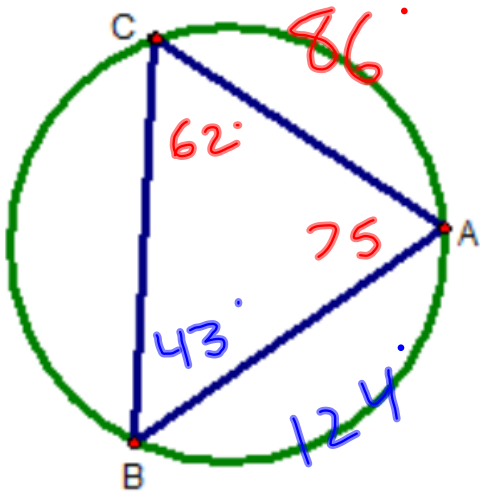
36



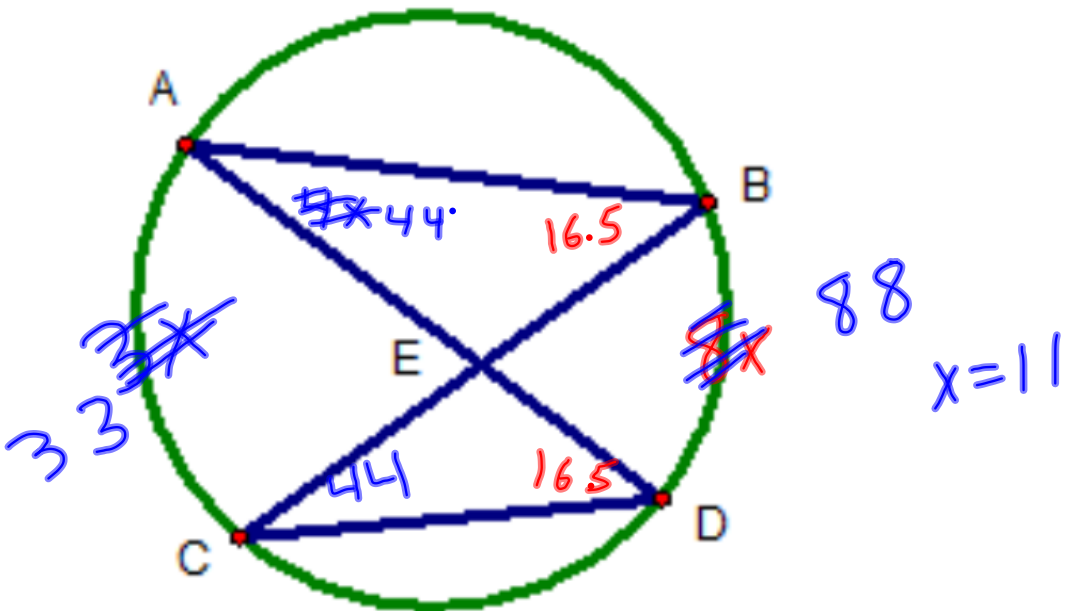
Circum

$$\frac{90}{360} \cdot \pi \cdot 4$$

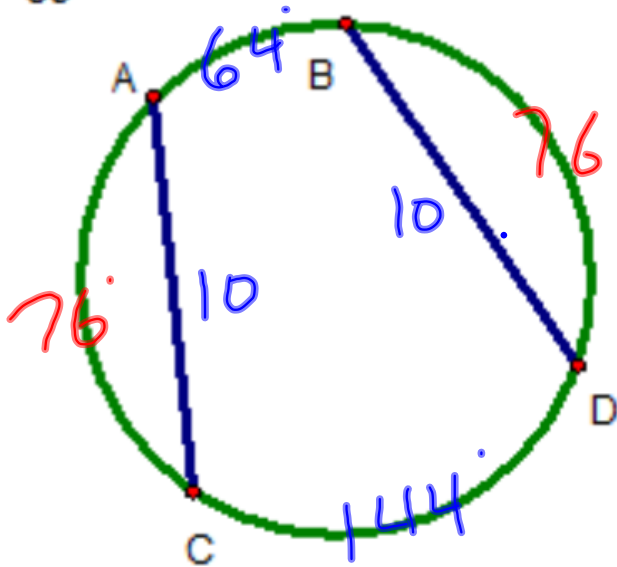
37



38



39



Arcs are =

$$\widehat{AC} = \widehat{BD}$$

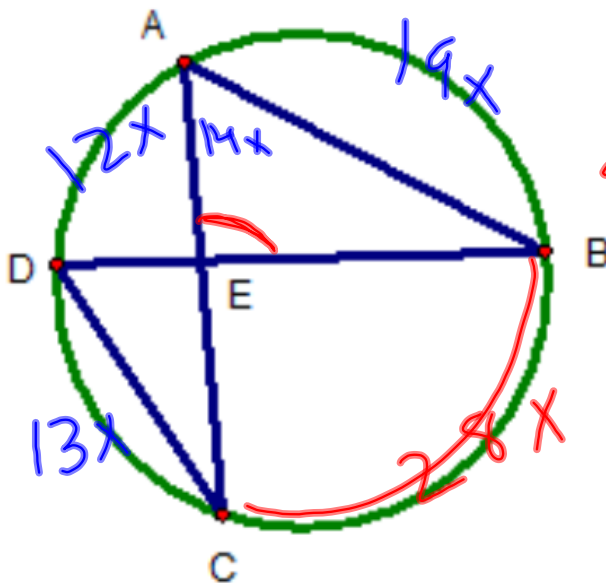
$$144 + 64 = 208$$

$$\therefore 152 \text{ left}$$

$$\frac{\quad}{2}$$

$$76'$$

40



$$\angle AEB = \frac{1}{2}(19x + 13x)$$

$$= \frac{1}{2}(32x)$$

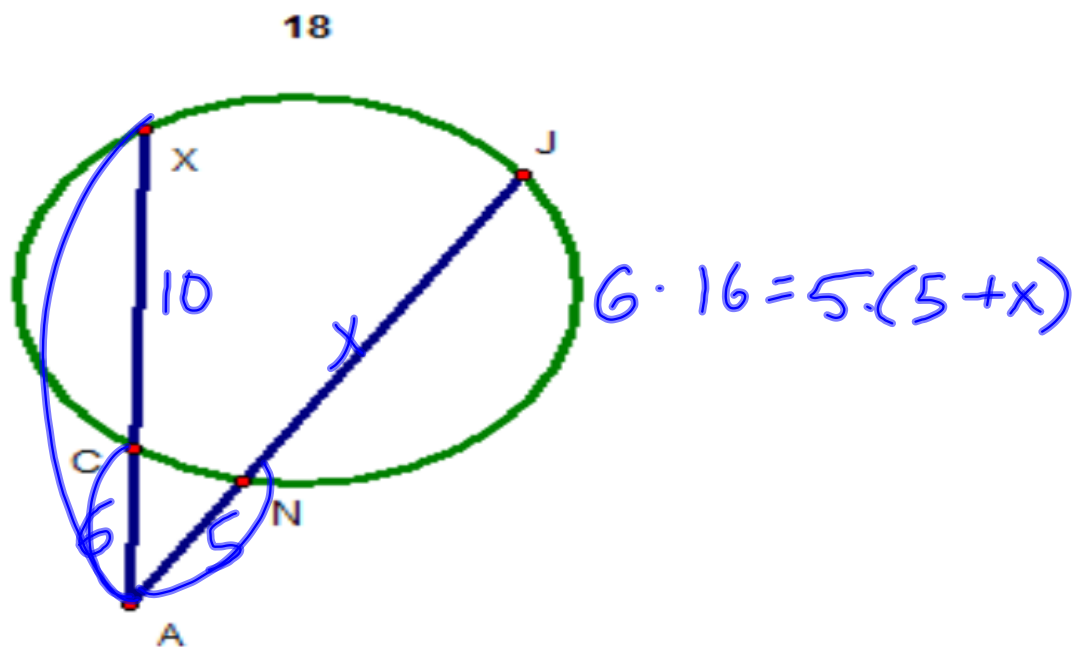
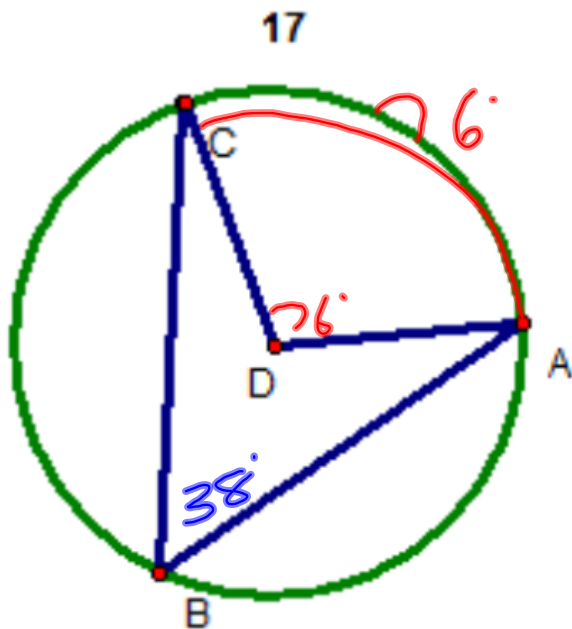
$$\frac{1}{2}(32 \cdot 5)$$

$$80'$$

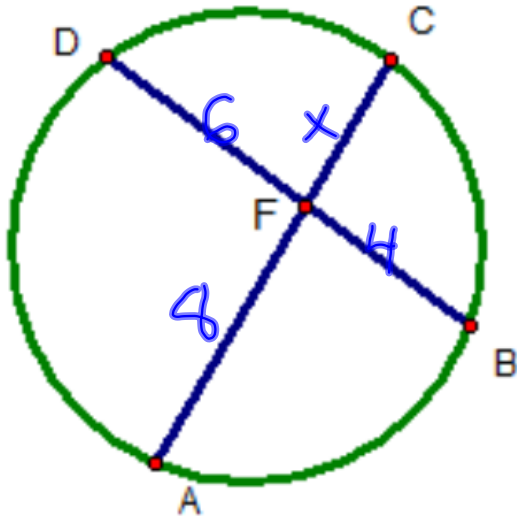
$$12x + 13x + 28x + 19x = 360'$$

$$72x = 360$$

$$x = 5$$



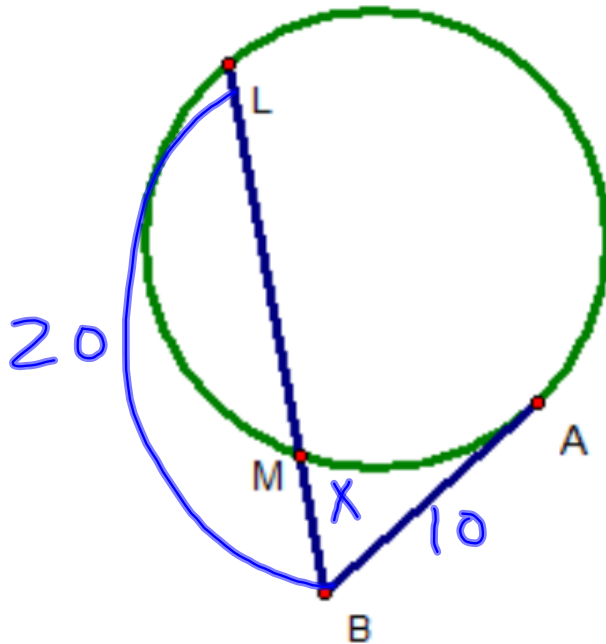
19



$$8 \cdot x = 6 \cdot 4$$

$$x = 3$$

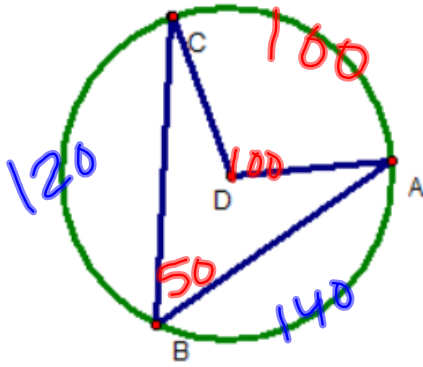
20



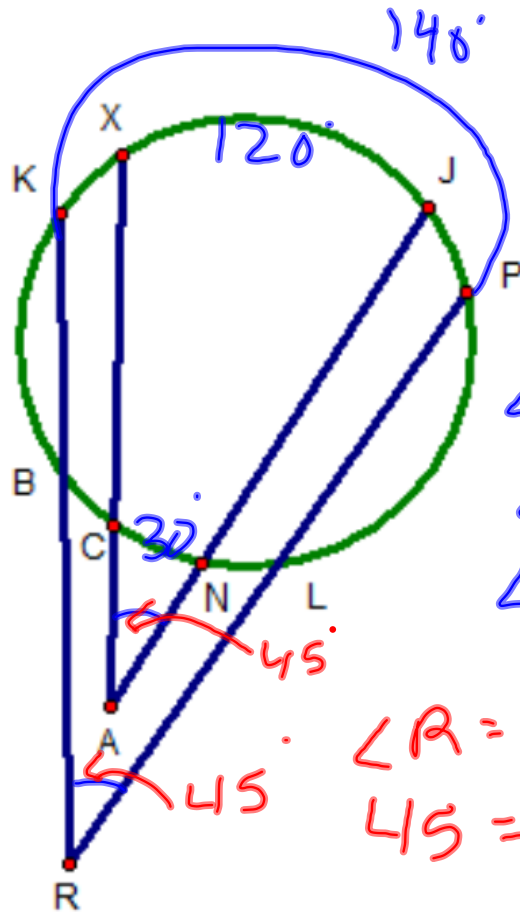
$$x \cdot 20 = 10 \cdot 10$$

$$x = 5$$

21



22



$$\angle A = \frac{1}{2}(120 - 30)$$

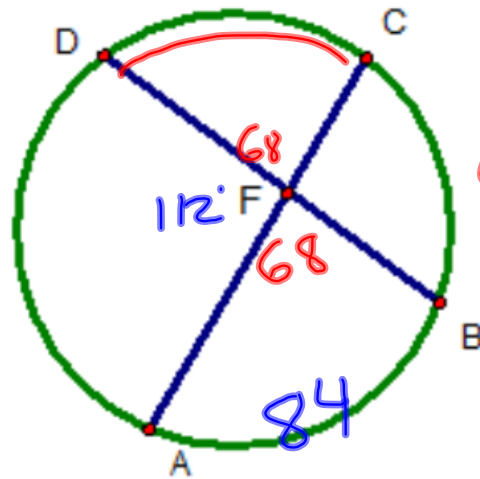
$$\angle A = 45$$

$$\angle A = \angle R = 45$$

$$\angle R = \frac{1}{2}(\widehat{RP} - \widehat{BL})$$

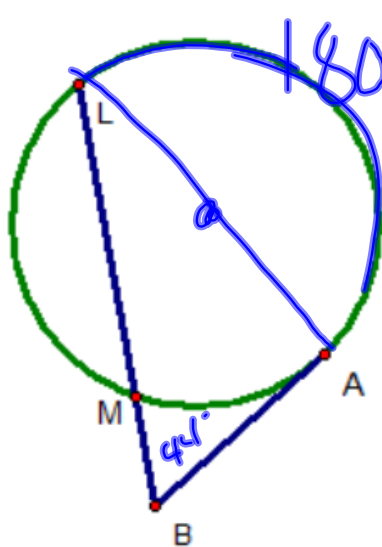
$$45 = \frac{1}{2}(140 - \widehat{BL})$$

23



$$68 = \frac{1}{2}(84 + \widehat{CD})$$

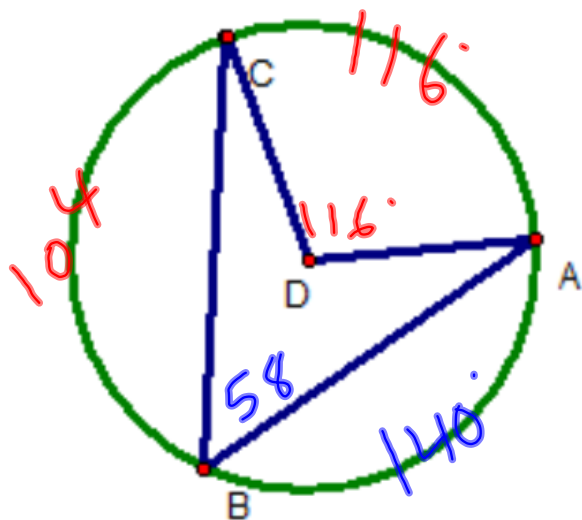
24



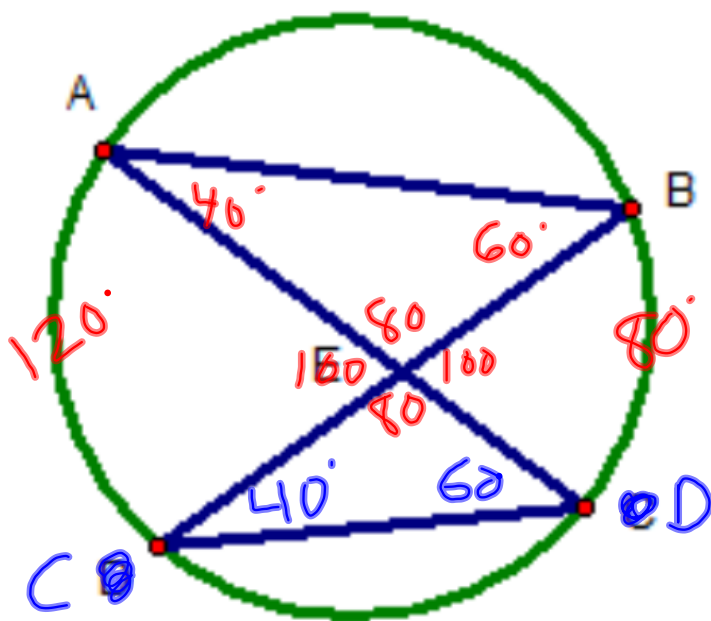
$$44^\circ = \frac{1}{2}(180 - \widehat{MA})$$



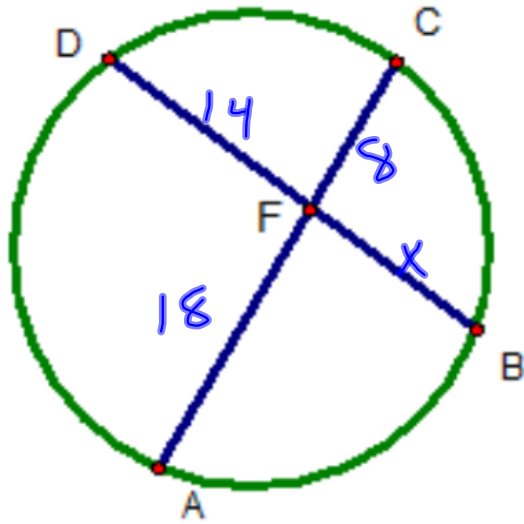
25



26

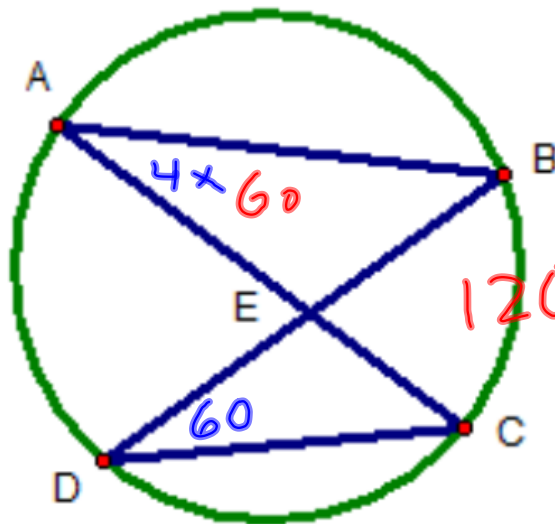


27



$$14x = 8 \cdot 18$$

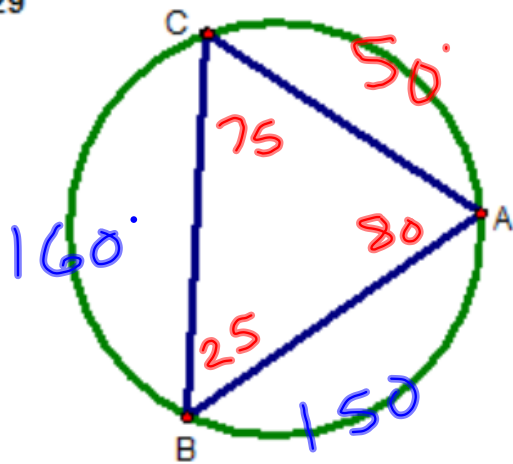
28



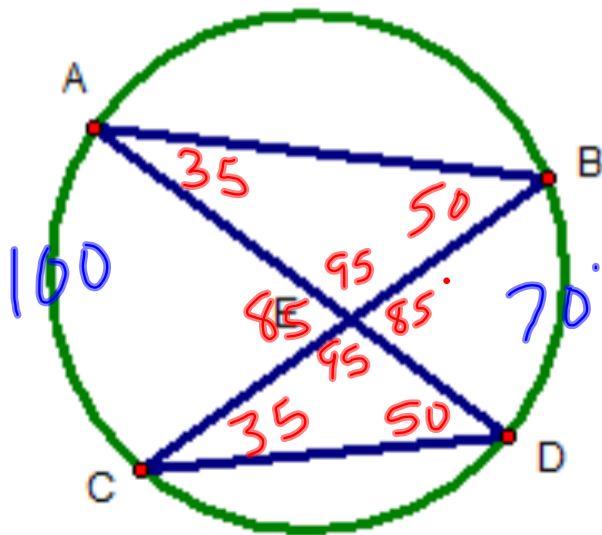
$$4x = 60$$

$$x = 15$$

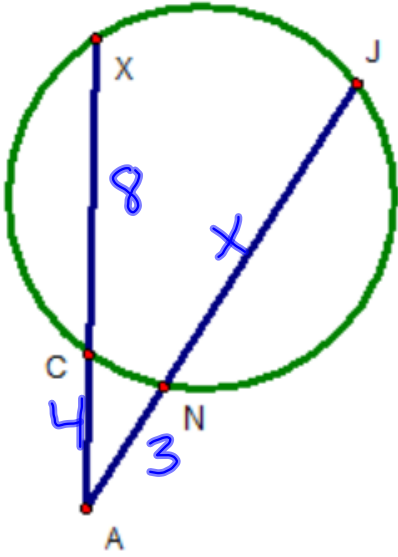
29



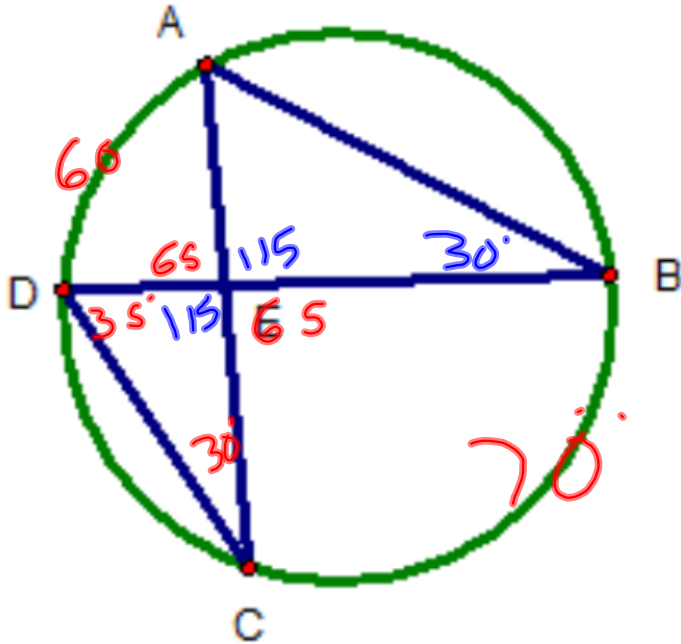
30



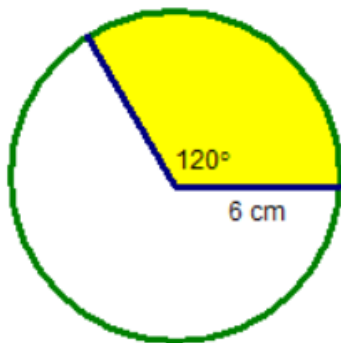
31



32



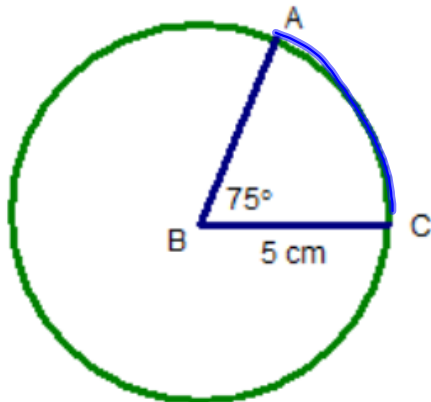
33



Fractional part  $\cdot$  Whole area

$$\frac{120}{360} \cdot \pi \cdot 6^2$$

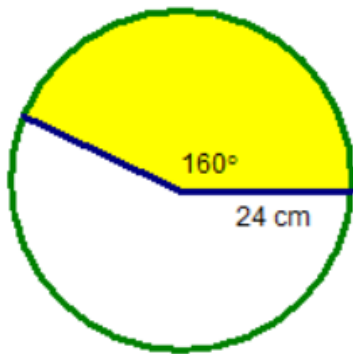
34



Fractional part  $\cdot$  Circum.

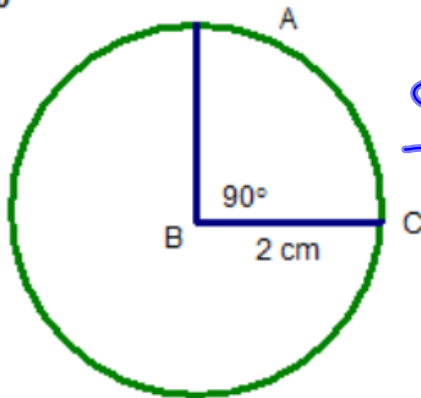
$$\frac{75}{360} \cdot \pi \cdot 10$$

35



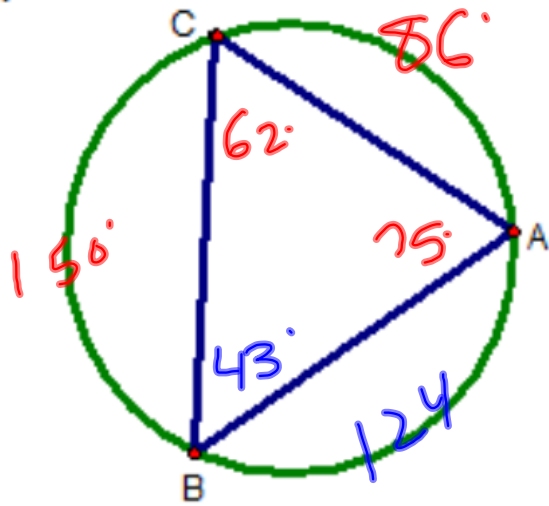
$$\frac{160}{360} \cdot \pi \cdot 24^2$$

36

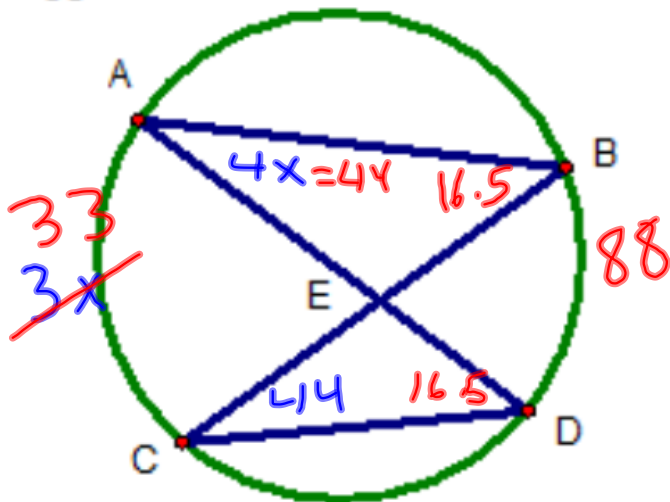


$$\frac{90}{360} \cdot \pi \cdot 4$$

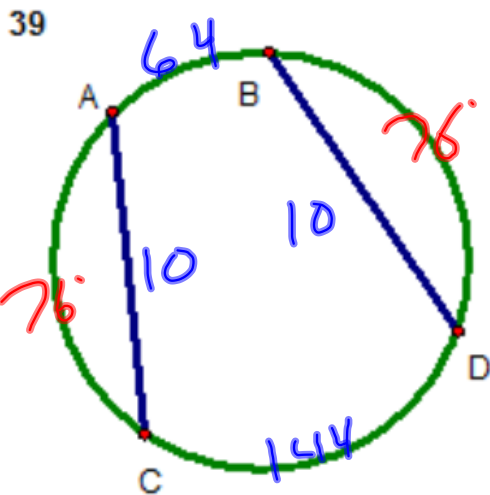
37



38



$$x = 11$$



$$\widehat{AC} = \widehat{BD}$$

$$144 + 64 = 208$$

Left is 360

$$- 208$$

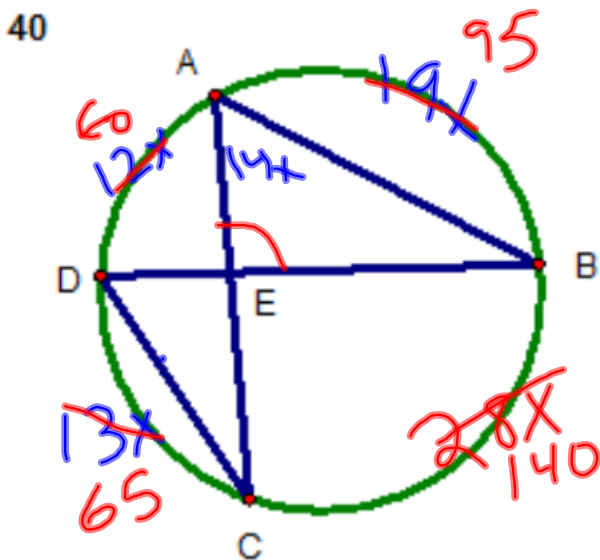
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$$152$$

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$$2$$

$$76^\circ$$



$$\angle AEB = \frac{1}{2} (95 + 65)$$

$$= 80^\circ$$

$$12x + 13x + 28x + 19x = 360$$

$$\rightarrow 2x = 360$$

$$x = 5$$