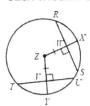
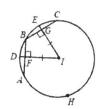
9. In circle Z, if RS = 18, and $\widehat{mTY} = 42^\circ$, find each measure.



$$TV = \frac{9}{TU = 18}$$

$$WS = \frac{9}{mYU} = \frac{42^{\circ}}{RS} = \frac{84^{\circ}}{8}$$

10. In circle *I*, if BG = 17, and $\widehat{mCHA} = 256^\circ$, find each measure.



$$BC = 34$$

$$FB = 17$$

$$m\widehat{AB} = 52^{\circ}$$

$$m\widehat{BC} = 52^{\circ}$$

$$m\widehat{EC} = 24^{\circ}$$

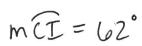
11. If QM = 6x - 11 and MR = 2x + 9, find MN.

MN = 38



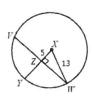
12. If $\widehat{mCI} = (7x - 15)^{\circ}$ and $\widehat{mEF} = (12x - 8)^{\circ}$, find \widehat{mCI} .

$$X = 11$$

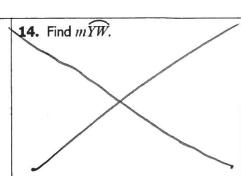




Use the circle below for questions 13 and 14.



13. Find VW. = 24



Use the circle below for questions 15 and 16.

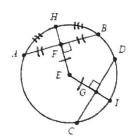


HK = 30 and PM = 8

15. Find PH. = 17



Congruent Chords & Arcs



· Two chords are congruent if and only if:

a) their corresponding arcs are congruent AB = CD + MAB = MCO

b) they are equidistant from the center AB = CD + FE = EG

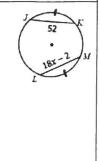
 If a diameter or radius is <u>per pendicular</u> to a chord,
 then it <u>bisech</u> the <u>chord</u> and its <u>acc</u>. EH L AB - AF = FB and m AH = m HB

Directions: Find the indicated value.

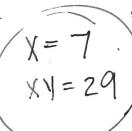
1. Find *x*.

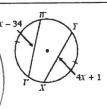
1(5 = 7x + 24)

- $(7x + 24)^{\circ}$
- 2. Find x. 52 = 18x-2



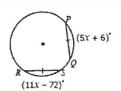
3. Find XY.



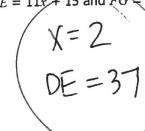


4. Find mRS.





7. If DE = 11x + 15 and FG = 32x - 27, find DE.





8. Find \widehat{mMP} .

