

10-3 Skills Practice

Arcs and Chords

In $\odot H$, $m\widehat{RS} = 82$, $m\widehat{TU} = 82$, $RS = 46$, and $\overline{TU} \cong \overline{RS}$. Find each measure.

1. TU



2. TK

23

3. MS

23

4. $m\angle HKU$

90

5. $m\widehat{AS}$

41

6. $m\widehat{AR}$

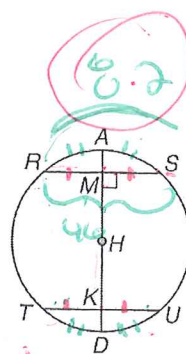
41

7. $m\widehat{TD}$

41

8. $m\widehat{DU}$

41



The radius of $\odot Y$ is 34, $AB = 60$, and $m\widehat{AC} = 71$. Find each measure.

9. $m\widehat{BC}$

71

10. $m\widehat{AB}$

142

11. AD

30

12. BD

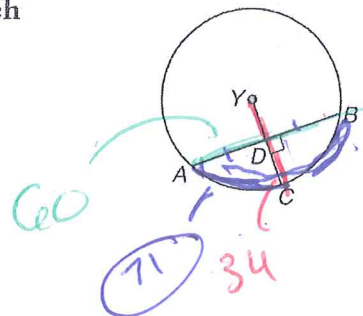
30

13. YD

16

14. DC

18



In $\odot X$, $LX = MX$, $XY = 58$, and $VW = 84$. Find each measure.

15. YZ

84

16. YM

42

17. MX

40

18. MZ

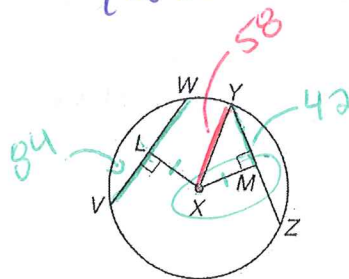
42

19. LV

42

20. LX

40



$$42^2 + MX^2 = 58^2$$

$$1764 + MX^2 = 3364$$

$$-1764 \quad -1764$$

$$\sqrt{MX^2} = \sqrt{1600}$$

$$MX = 40$$