

our new conjectures to solve Exercises 1-17.

1.  $a = ?$   $65^\circ$  C-81

2.  $b = ?$   $30^\circ$  C-83  $\Delta$  Sum

p468

3.  $c = ?$  (h) green =  $190^\circ$   
 $190 - 120 = 70^\circ$   
 C-81

4.  $h = ?$  (h) C-74  $\Delta$  Sum  
 def of arc measure  $50^\circ$

5.  $d = ?$   
 $e = ?$   $40^\circ$  C-81  
 $140^\circ$   $42^\circ$   $84^\circ$   $180 - 96$

6.  $f = ?$   $90^\circ$   
 $g = ?$  yellow arc =  $210^\circ$  C-85, 81  
 $g = 100^\circ$  ( $210 - 110$ )

7. JUST is a rhombus.  
 $w = ?$  def of arc measure  
 VA C-74 Quad Sum

8. CALM is a rectangle. C-85  
 $x = ?$   $360 - 64 = 296$   
 $2 \sqrt{296} = 148$

DOWN is a kite.  $y = ?$  C-77 = chords = arc  
 $3$  have  $\hat{=}$  arc  
 $\frac{272}{88} \angle = 44^\circ$

10.  $k = ?$  C-81  $142^\circ$   
 $\frac{180 - 38}{2} = 71^\circ$

11.  $r = ?$   $120^\circ$  C-81  
 $s = ?$   $4 \cdot 60 = 240^\circ$   
 $\frac{1}{2} \cdot 240 = 120^\circ$   
 $\frac{1}{6}$  of circle =  $60^\circ$

$m = ?$  C-84, 83  
 $n = ?$   $180 - 40 = 140^\circ$   
 diameter C-81  
 green  $\angle = \frac{1}{2}(40 + 98) = 69^\circ$   
 C-84  $n = 180 - 69 = 111^\circ$

13.  $\overline{AB} \parallel \overline{CD}$  C-85  
 $p = ?$   $71^\circ$   
 $q = ?$   $41^\circ$   $\frac{180 - 98}{2}$   
 $120$   $\widehat{AC} = \widehat{BD}$   
 $71^\circ$   $360 - 120 - 98 = 142$   
 $142 / 2 = 71^\circ$

14. What is the sum of a, b, c, d, and e? (h)  $180^\circ$

#15:  $75^\circ$

#16: the  $\angle$ 's should be  $180^\circ$  (C-82)