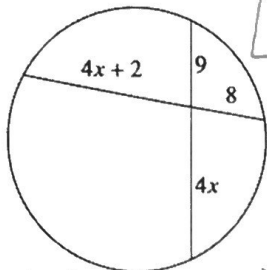


**Day 5 Segment Lengths**

1) Solve for x.



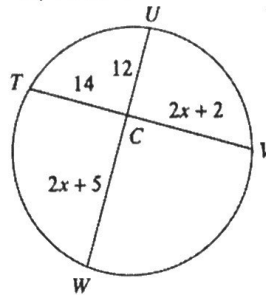
$x = 4$

$$9(4x) = 8(4x+2)$$

$$36x = 32x + 16$$

$$4x = 16$$

2) Find CW



$2(8) + 5 = 21$

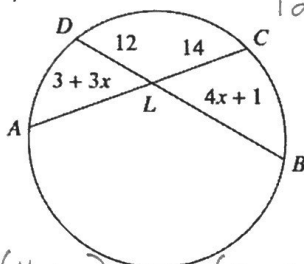
$$12(2x+5) = 14(2x+2)$$

$$24x + 60 = 28x + 28$$

$$32 = 4x$$

$$8 = x$$

3) Find BD.



$12 + 4(5) + 1$

$33$

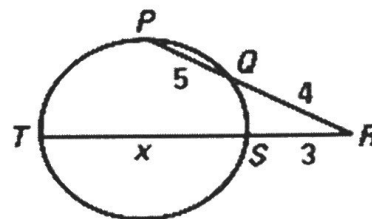
$$12(4x+1) = 14(3+3x)$$

$$48x + 12 = 42 + 42x$$

$$6x = 30$$

$$x = 5$$

4) Solve for x.



$x = 9$

$$4(4+5) = 3(3+x)$$

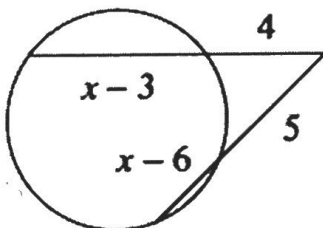
$$4(9)$$

$$36 = 9 + 3x$$

$$27 = 3x$$

5) Solve for x.

$x = 9$



$$4(4+x-3) = 5(5+x-6)$$

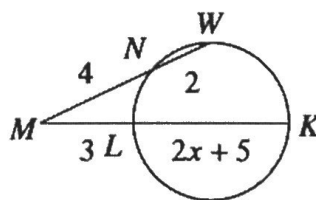
$$4(x+1) = 5(x-1)$$

$$4x+4 = 5x-5$$

$$9 = x$$

6) Find LK.

$= 2(0) + 5 = 5$



$$4(4+2) = 3(3+2x+5)$$

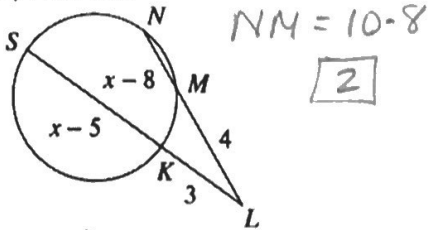
$$4(6) = 3(8+2x)$$

$$24 = 24 + 6x$$

$$0 = 6x$$

$$x = 0$$

7) Find NM.



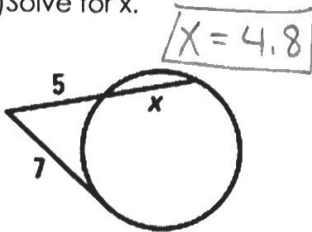
$$4(4+x-8) = 3(3+x-5)$$

$$4(-4+x) = 3(-2+x)$$

$$-16 + 4x = -6 + 3x$$

$$x = 10$$

9) Solve for x.

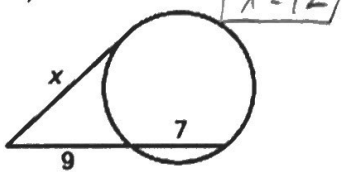


$$(7)^2 = 5(5+x)$$

$$49 = 25 + 5x$$

$$24 = 5x$$

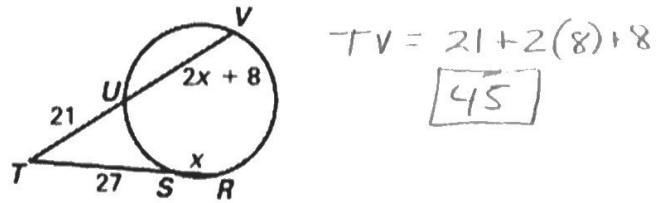
11). Solve for x.



$$x^2 = 9(9+7)$$

$$x^2 = 144$$

8) Find TV.



$$21(21+2x+8) = 27(27+x)$$

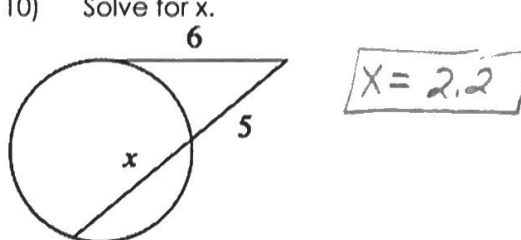
$$21(29+2x) = 729 + 27x$$

$$609 + 42x = 729 + 27x$$

$$15x = 120$$

$$x = 8$$

10) Solve for x.

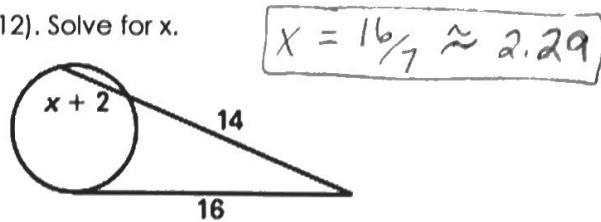


$$(6)^2 = 5(5+x)$$

$$36 = 25 + 5x$$

$$11 = 5x$$

12). Solve for x.



$$(16)^2 = 14(14+x+2)$$

$$256 = 224 + 14x$$

$$32 = 14x$$