

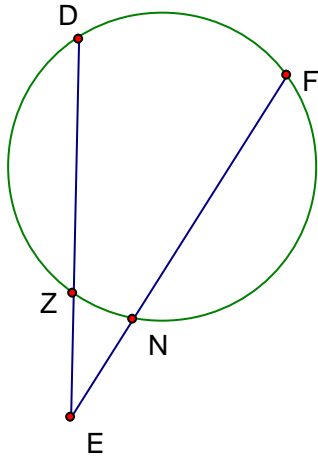
# 9-4 Chord lengths

Name: \_\_\_\_\_

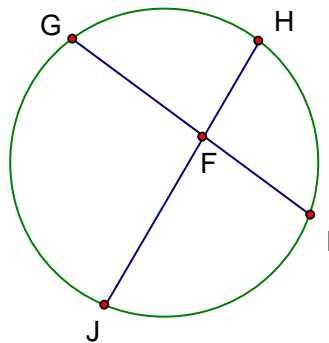
Time Start: \_\_\_\_\_ Finish: \_\_\_\_\_

Total Time = \_\_\_\_\_

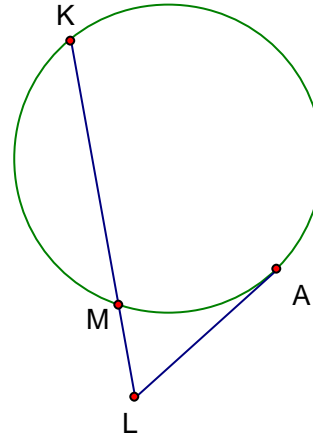
**Figure 1**



**Figure 2**



**Figure 3**



\_\_\_\_\_ 1. If in Figure 1,  $ZE = 4$ ,  $EN = 6$ , and  $NF = 8$ , what is  $DZ$ ?

\_\_\_\_\_ 2. If in Figure 1,  $ED = 20$ ,  $EN = 4$ , and  $EF = 22$ , what is  $ZE$ ?

\_\_\_\_\_ 3. If in Figure 1,  $DZ = 8$ ,  $ZE = 2$ , and  $EN = 3$ , what is  $NF$ ?

\_\_\_\_\_ 4. If in Figure 2,  $JF = 8$ ,  $FH = 4$ , and  $FI = 6$ , what is  $GF$ ?

\_\_\_\_\_ 5. If in Figure 2,  $HF = FI = 6$ , and  $JF = 8$ , what is  $GF$ ?

\_\_\_\_\_ 6. If in Figure 2,  $JF = 10$ ,  $JH = 18$ , and  $GF = 6$ , what is  $FI$ ?

\_\_\_\_\_ 7. If in Figure 3,  $KM = 8$  and  $ML = 4$ , what is  $LA$ ?

\_\_\_\_\_ 8. If in Figure 3,  $KL = 10$  and  $KM = 4$ , what is  $LA$ ?

\_\_\_\_\_ 9. If in Figure 3,  $LA = 12$  and  $LM = 8$ , what is  $KM$ ?

\_\_\_\_\_ 10. If in Figure 3,  $LA = 10$  and  $LM = 4$ , what is  $KM$ ?

## SAT Questions – All have videos

- \_\_\_\_\_ Trig 2-3    16. How many integers from the set of all integers from 1 to 100 inclusive are NOT the cube of an integer?  
A. 93      B. 94      C. 95      D. 96      E. 97

- \_\_\_\_\_ Trig 2-3    18. If  $A$  is the least positive 5-digit integer with *nonzero* digits, none of which is repeated, and  $B$  is the greatest of such positive integers, then  $B - A =$   
A. 41,976    B. 66,666    C. 86,420    D. 86,424    E. 89,999

- \_\_\_\_\_ Trig 2-4    19. If  $\sqrt{2p} = \sqrt{18}$ , what is the value of  $p$ ?