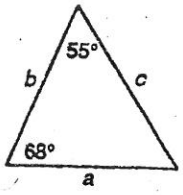
5.5 & 5.7 RWS

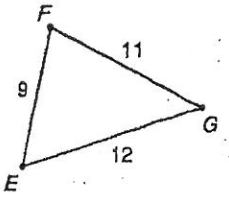
By: _____

40

1. Rank the sides from shortest to longest. (2 pt)

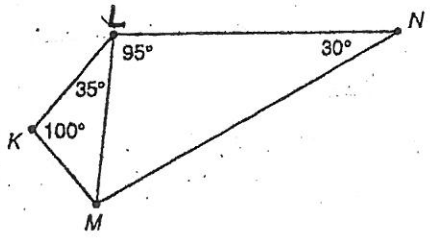


2. Rank the angles from largest to smallest. (2 pt)

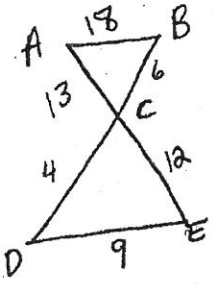


3. List the sides of ΔDEC from shortest to longest if the angles of ΔDEC have the following measures: $m\angle D = 10x$, $m\angle E = 5x - 17$ and $m\angle C = 7x - 1$. (2 pt)

4. Order the sides (all 5) from shortest to longest. (2 pt)



5. Use the figure below. Name the greatest of the six angles. (2 pt)



7. Perpendicular bisectors of a triangle are concurrent at a point termed the _____. (1 pt)

8. Can a triangle be made with the following lengths? (1 pt ea)

a. 12, 5, 9 b. 35, 38, 3 c. 25, 25, 17 d. 17, 5, 15

9. Express the possible lengths for the missing third side of the triangles. (2 pt ea)

a. 4, 16, ? b. 8, 9,

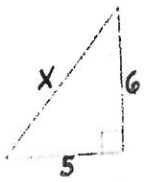
In #10-11 will the points create a triangle? Coordinates given, so graphng may help. (2 pt ea)

10. (-4,2) (-2,1) (2,-1)

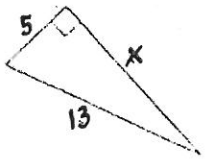
11. (2,5), (-3,5) (6,-1)

#12-16, Solve for each missing side length.

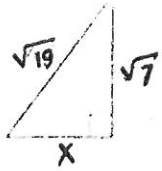
12.



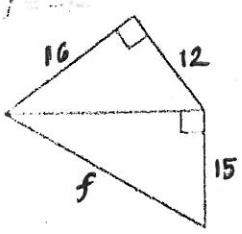
13.



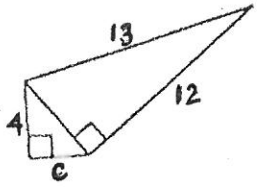
13.5



14.



15.



16. The area of the rectangle is 168 sq. ft. $d = -?-$

#17-20, Answer each problme, a sketch will help

17. The bases on a baseball diamond are 90 ft. apart. How far is a A throw from home plate to 2nd base?

18. An 18ft. ladder leans against a wall. If the base of ladder is 8 ft from the wall. how hig up does the ladder reach?

19. The diagronal of a square is 32 meters. What is the perimeter?

20. A giant california Redwood tree cracked and fell over in a storm. The break occurred 78 meters up the tree. The top of the tree landed 72 m. away from the trunk. How tall *was* the tree?

#21-24, Determine if the lengths represent an acute, obtuse or right triangle.

21. 9, 41, 40

22. 2, 10, 11

23. 14, 9.5, 5.75

24. $\sqrt{13}$, 6, 7

Challege: What is the longest stick that can fit in a 24 cm x 20 cm x 8 cm box (drawn on board)? + 2 points