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

Worksheet 5.1 Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_



Directions: Use the diagrams at the right to complete each problem.

1. In ΔMNO, the points C, D, and E are midpoints. CD = 4cm, CE = 8 cm, and DE = 7 cm.

a. Find MO. b. Find NO. c. Find MN.



2. In ΔLOB, the points A, R, and T are midpoints. LB = 19 cm, LO = 35 cm, and OB = 29 CM.

a. Find RT. b. Find AT. c. Find AR.

Directions: Find the value of the variable.



3. 4. 5.

x = \_\_\_\_\_ y = \_\_\_\_\_ t = \_\_\_\_\_

Directions: Use the diagram of ΔXYZ where A, B, and C are midpoints of the sides.

6. 

7. 

8. If AC = 3, then XZ = \_\_\_\_\_

9. If YZ = 7, then AB = \_\_\_\_\_

10. If AC = 3m, then XZ = \_\_\_\_\_

11. If XY = m + 1 and BC = m – 3, then XY = \_\_\_\_\_

12. If AC = m – 2 and XZ = m + 4, then AC = \_\_\_\_\_

Directions: Using the given information, find the Perimeter of ΔABC.

13. AX = 2, XY = 3, BC = 9 14. XZ = 5, ZY = 3, XY = 7

Directions: Use the given diagram to answer the following question.

15.)

Directions: Identify pairs of parallel segments and corresponding angles in the given diagrams.



16.) 17.)

18.)  is a midsegment of ΔFGH. IJ = 7, FH = 10, and GH = 13. Find the perimeter of each triangle.

a) ΔIJH b) ΔFGH