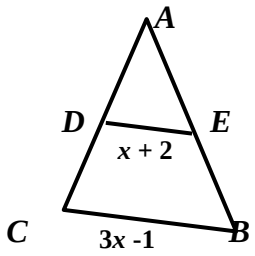
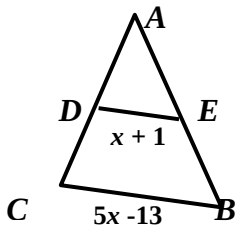
Name_____PER:____

Unit 4 Intervention/Prevention – Ticket to Retake

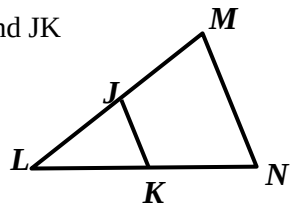
1. $\overline{DE}$ is a midsegment of ΔABC. Find the value of x. 1._____



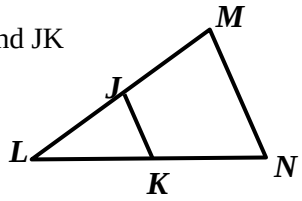
2. $\overline{DE}$ is a midsegment of ΔABC. Find the value of x. 2._____



3. $\overline{JK}$ is a midsegment of ΔLMN. 3._____
If LJ = 4, LK = 7, MN = 16, find LN and JK



4. $\overline{JK}$ is a midsegment of ΔLMN. 4._____
If LJ = 6, LK = 9, MN = 22, find LN and JK



5. Yes/No: Can the measures of the lengths of the three sides be a triangle? 5._____

20 cm, 10 cm, 35 cm

5 cm, 10 cm, 12 cm

2 cm, 7 cm, 5 cm

12 cm, 4 cm, 12 cm

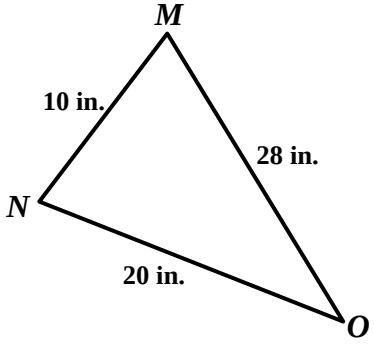
6. True/False

a. $m\angle O > m\angle M$

b. $m\angle M > m\angle N$

c. $m\angle M < m\angle N$

d. $m\angle N < m\angle O$



7. Yes/No:
The lengths of two sides of a triangle are 10 and 5. Which of the following could be the length of the third side?

a. 5 b. 10 c. 15 d. 20

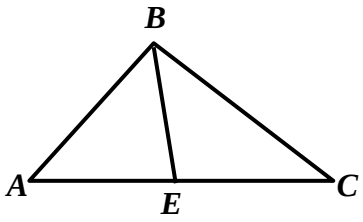
8. $\overline{BE}$ is a **median** in triangle ABC. Are the following statements True or False?

a. $\angle BCE \cong \angle BAE$

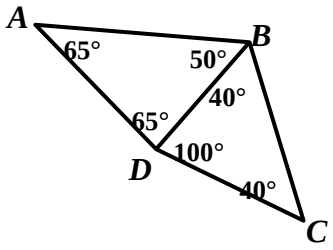
b. $\overline{AB} \cong \overline{BC}$

c. $\overline{AE} \cong \overline{EC}$

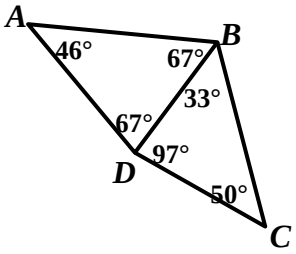
d. $\overline{BE} \perp \overline{AC}$



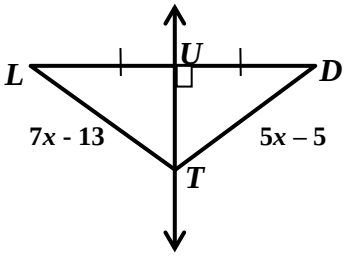
9. Which segment in the figure would be the shortest? 9._____



10. Which segment in the figure would be the shortest? 10._____

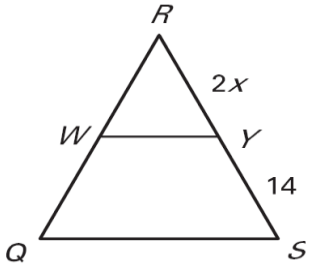


11. Find LT

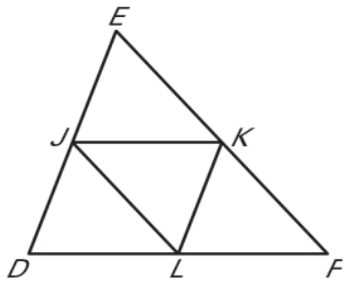


11._____

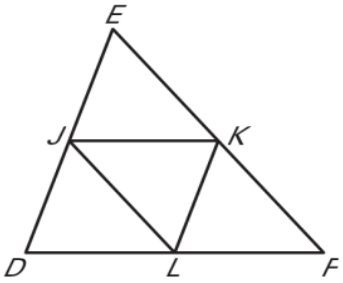
12. WY is a midsegment of ΔQRS. Find the value of x. 12._____



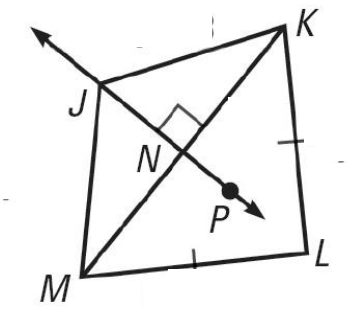
13. Use Δ*DEF*, where J, K, and L are midpoints of the sides. 13._____
If JL = 3x -2 and EF = 5x + 11, what is EK and EF



14. Use Δ*DEF*, where J, K, and L are midpoints of the sides. 14._____
If JL = 2x + 1 and EF = 9x - 38, what is EK and EF?



15. Use the figure below. $\overleftrightarrow{JN}$ is the ⊥ bisector of $\overline{MK}$.



ML = 10x – 20

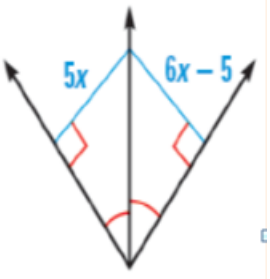
LK = 8x + 6

NK = 12

MK = _____

ML = _____

16. Find x. 16._____



Review Orthocenter, Centroid, Circumcenter and Incenter