Use the diagram of \( \triangle ABC \) where D, E, and F are the midpoints of the sides.

1. \( \overline{DE} \) = __________
2. \( \overline{FE} \) = __________
3. If \( AB = 14 \), then \( EF = \) __________
4. If \( AE = 8 \), then \( DF = \) __________
5. If \( DE = 6 \), then \( BC = \) __________

Use the diagram of \( \triangle JKL \) where R, S, and T are midpoints of the sides, \( RK = 3 \), \( KS = 4 \), and \( \overline{JK} \perp \overline{KL} \).

6. Find the length of RS.
7. Find the length of JK.
8. Find the length of RT
9. Find the perimeter of \( \triangle JKL \).

Use the diagram of \( \triangle MNO \) where X, Y, and Z are midpoints of the sides.

10. If \( YZ = 3x + 1 \), and \( MN = 10x - 6 \) then \( YZ = \) __________
11. If \( YX = x - 1 \), and \( MO = 3x - 7 \), then \( MO = \) __________
12. If \( m\angle Mon = 48^\circ \), then \( m\angle MZX = \) __________
13. If \( m\angle MXZ = 37^\circ \), then \( m\angle MNO = \) __________

Use the diagram of \( \triangle MNO \) where, X, Y, and Z are the midpoints.

14. If \( YZ = 2x + 3 \), and \( MN = 5x - 14 \), then \( YZ = \) __________
15. If \( YX = 3x - 4 \), and \( MO = 9x - 20 \), then \( MO = \) __________
Assume the middle line is a midsegment in the problems below:

Find the length of each line

16).

17).

18).