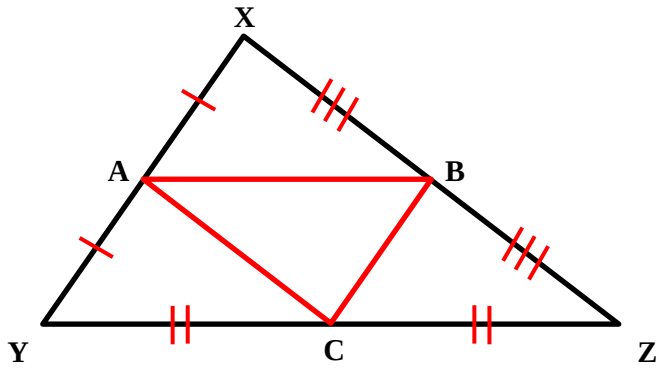
Name: _____ Period: _____ Date: _____

MIDSEGMENTS OF TRIANGLES Guide Notes



MIDSEGMENT OF A TRIANGLE is a segment that joins the midpoints of two sides of the triangle.

Midsegments:

Properties:

1. It is always parallel to the third side.

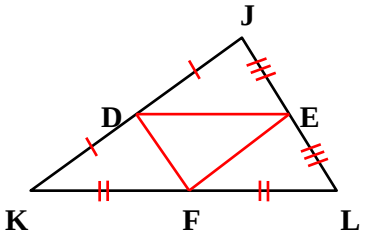
2. Its length is half the length of the third side.

MIDSEGMENT TRIANGLE is a triangle formed by the midsegments of a triangle.

TRIANGLE MIDSEGMENT THEOREM

"In a triangle, the segment joining the midpoints of any two sides will be parallel to the third side and half its length."

Sample Problem 1: Given: $\overline{JK} = 10$ $\overline{DE} = 6.5$ $\overline{EL} = 3.7$



Find:

a. $\overline{KD} =$ _____

b. $\overline{DJ} =$ _____

c. $\overline{DF} =$ _____

d. $\overline{JL} =$ _____

e. $\overline{KF} =$ _____

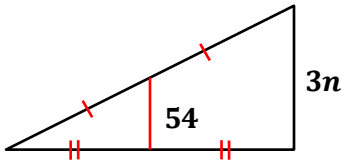
f. $\overline{FL} =$ _____

Name: _____ Period: _____ Date: _____

MIDSEGMENTS OF TRIANGLES Guide Notes

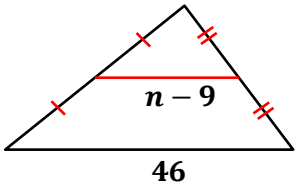
Sample Problem 2: Find the value of n.

a.



$n =$ _____

b.



$n =$ _____

Sample Problem 3: In the house's roof, as shown below, find the height, x, of the support.