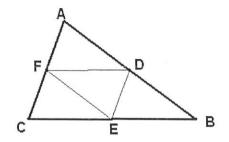
Section 5.4 Notes - The Triangle Midsegment Theorem

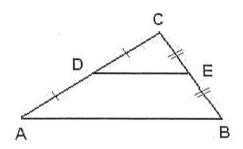


TLW apply properties of triangle midsegments

TLW create triangle midsegments on an oversized triangle so they can color it and make it pretty and hang it on their refrigerator

IS A SEGMENT THAT JOINS THE MIDPOINTS OF TWO SIDES OF THE TRIANGLE. EVERY TRIANGLE HAS ______ MIDSEGMENTS. WHICH FORM THE MIDSEGMENT TRIANGLE.





TRIANGLE MIDSEGMENT THEOREM

A MIDSEGMENT OF A TRIANGLE IS PARALLEL TO A SIDE OF THE TRIANGLE, AND ITS LENGTH IS HALF THE LENGTH OF THAT SIDE.

$$\overline{DE} \parallel \overline{AB}$$

$$DE = \frac{1}{2} (AB)$$

~ PRACTICE ~

USE THE DIAGRAM TO THE RIGHT TO ANSWER THE QUESTIONS BELOW. GIVEN: \triangle ABC, THE MIDPOINT OF THE SIDES ARE L, M, and N.

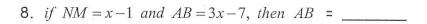
2.
$$\overline{AB} \parallel$$

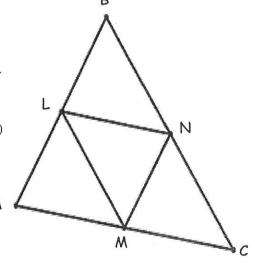
3. if
$$AC = 14$$
, then $LN =$

3. if
$$AC = 14$$
, then $LN = ____ 4$. if $MN = 8$, then $AB = ____$

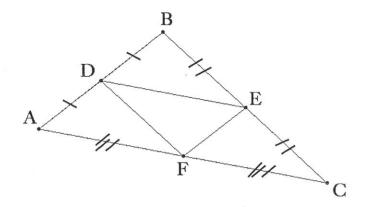
5. if
$$NC = 3$$
, then $LM = ___ = 10$

7. if
$$LM = 3x + 1$$
 and $BC = 10x - 6$, then $LM = _____$

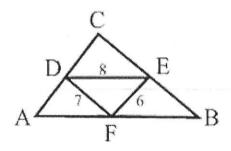




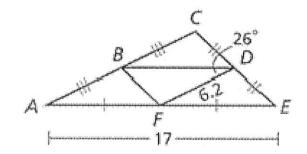
9. GIVEN BC = 12, DE = 7, and BD = 4, find the perimeter of ΔBCA .



10. Find the perimeter of $\triangle ACB$ given the diagram below given that $DE, EF, and \ DF$ are midsegments of $\triangle ACB$.



USE THE DIAGRAM ON THE RIGHT TO ANSWER THE FOLLOWING QUESTIONS 11 - 13.



EVEN SCOORY-DOO USES MATH

