

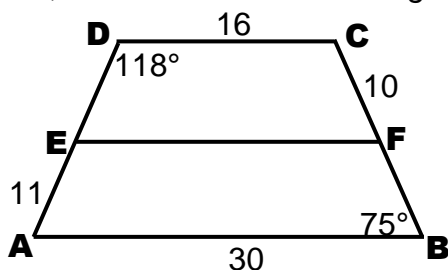
Independent Practice: **TRAPEZOIDS**

NAME: _____

DATE: _____

PERIOD: _____

For # 1 – 6, use trapezoid $ABCD$, \overline{EF} is a median and the given information to find each value.



1. $m\angle A =$ _____ $^{\circ}$ Calculate the measure of $\angle A$.

2. $m\angle C =$ _____ $^{\circ}$ Calculate the measure of $\angle C$.

3. $m\angle FEA =$ _____ $^{\circ}$ Calculate the measure of $\angle FEA$.

4. $EF =$ _____ Calculate the length of EF .

5. $AD =$ _____ Calculate the length of AD .

6. $FB =$ _____ Calculate the length of FB .

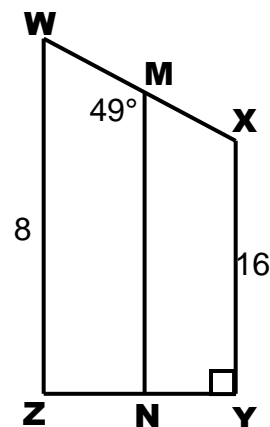
For # 7 – 10, use trapezoid $WXYZ$, \overline{MN} is the median and the given information to find each value.

7. $MN =$ _____ Calculate the length of the median.

8. $m\angle XYZ =$ _____ $^{\circ}$ Calculate the measure of $\angle XYZ$.

9. $m\angle YXM =$ _____ $^{\circ}$ Calculate the measure of $\angle YXM$.

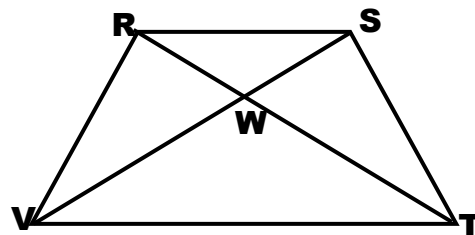
10. $m\angle XWZ =$ _____ $^{\circ}$ Calculate the measure of $\angle XWZ$.



For #11 – 12, refer to $RSTV$ which is an isosceles trapezoid. Decide whether each statement is **TRUE** or **FALSE**. Justify your answer.

11. TRUE or FALSE $\overline{TR} \perp \overline{SV}$

Why? _____

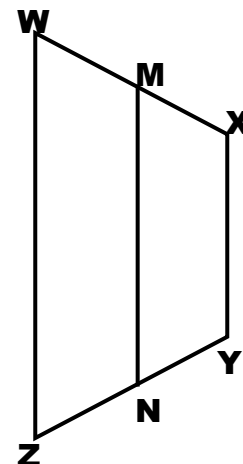


12. TRUE or FALSE $\angle RVT \cong \angle STV$

Why? _____

For # 13 – 16, refer to $WXYZ$ which is an isosceles trapezoid with bases \overline{WZ} and \overline{XY} and median \overline{MN} . Use the given information to solve each problem.

13. $MN =$ _____ Find MN if $WZ = 11$ and $XY = 3$.



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14. $x =$ _____ What is the value of x if $m\angle MWZ = (15x - 5)^\circ$ and $m\angle WZN = (90 - 4x)^\circ$?

-
15. $x =$ _____ If $MN = 60$, $XY = 4x - 1$, and $WZ = 6x + 11$, find the value of x .

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16. $x =$ _____ If $MN = 2x + 1$, $XY = 3x - 3$, and $WZ = 8$, find the value of x .