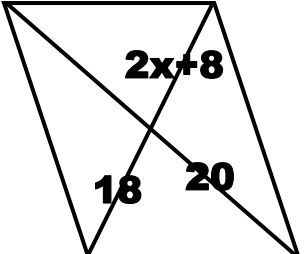
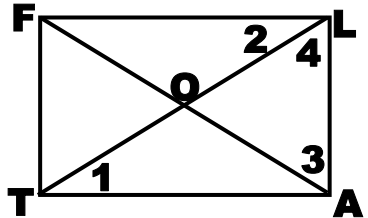
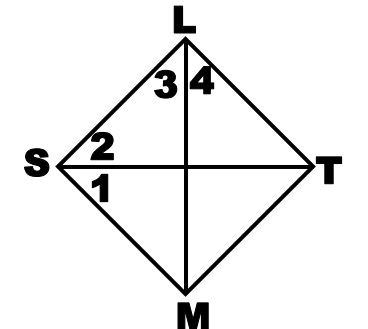


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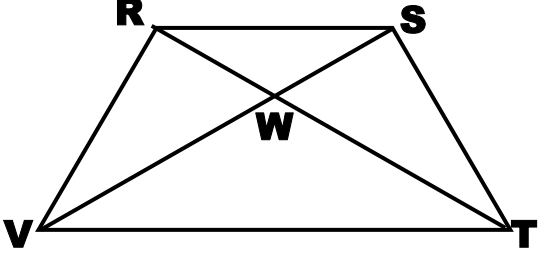
QUADRILATERALS & ALGEBRA

1. _____	In rhombus BCDE, $m\angle B = 68^\circ$. Find $m\angle E$.
2. _____	In parallelogram ABCD, $m\angle A = (8x - 16)^\circ$ and $m\angle C = (2x + 20)^\circ$. Find $m\angle B$.
3. _____	In rectangle LMNO, $LN = 4x - 12$, and $OM = 2x + 10$. Find OM.
4. _____	The diagonals of square WXYZ intersect at A. If $m\angle WAX = (9x - 9)^\circ$, find the value of 'x'.
5. _____	In rhombus LMNO, the diagonals intersect at X. If $m\angle LMO = 32^\circ$, find $m\angle MLO$.
6. _____	Find the value of 'x' in the parallelogram. <div style="text-align: right; margin-top: 20px;">  </div>

<p>7. _____</p>	<p>FLAT is a rectangle. If $m\angle 1 = 18^\circ$, find $m\angle 2$.</p>	
<p>8. _____</p>	<p>SLTM is a rhombus. If $m\angle 2 = (3x+1)^\circ$ and $m\angle 3 = (7x-11)^\circ$, find $m\angle 4$.</p>	

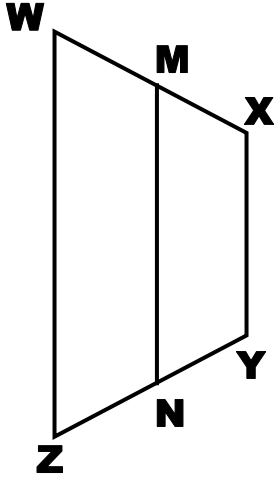
RSTV is an isosceles trapezoid. Decide whether each statement is TRUE or FALSE. Justify your answer.

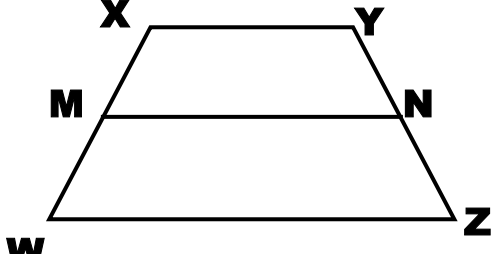
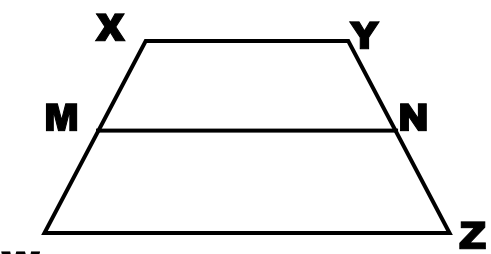
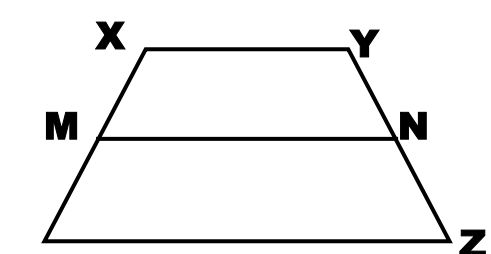
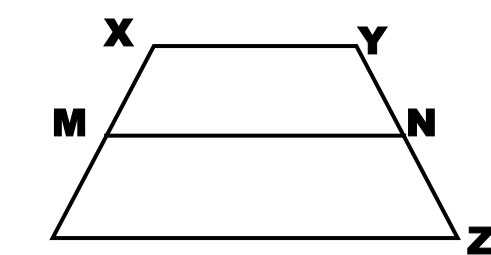
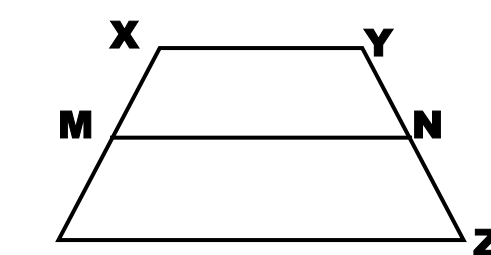
<p>9. TRUE or FALSE Why?</p>	<p>$\overline{TR} \perp \overline{SV}$</p>
<p>10. TRUE or FALSE Why?</p>	<p>$\angle RVT \cong \angle STV$</p>
<p>11. TRUE or FALSE Why?</p>	<p>$\angle SRV$ & $\angle TVR$ are supplementary.</p>



WXYZ is an isosceles trapezoid with bases \overline{WZ} and \overline{XY} and median \overline{MN} . Use the given information to solve problems 12 – 18.

<p>12. _____</p>	<p>Find MN if $WZ = 11$ and $XY = 3$.</p>
<p>13. _____</p>	<p>If $MN = 10$ and $WZ = 14$, find XY.</p>



14. _____	<p>What is the $m\angle WZN$ if $m\angle XMN = (15x - 5)^\circ$ and $m\angle WZN = (90 - 4x)^\circ$?</p> 
15. _____	<p>If $m\angle XWZ = (2x - 7)^\circ$ and $m\angle XYZ = 117^\circ$, find the value of 'x'.</p> 
16. _____	<p>If $MN = 60$, $XY = 4x - 1$, and $WZ = 6x + 11$, find WZ.</p> 
17. _____	<p>If $MN = 10x + 3$, $WZ = 11$, and $XY = 8x + 19$, find XY.</p> 
18. _____	<p>If $MN = 2x + 1$, $XY = 8$, and $WZ = 3x - 3$, find MN.</p> 

Determine if the following statements are TRUE or FALSE. If false, tell why.

19. TRUE or FALSE Why?	Every quadrilateral is a parallelogram.
20. TRUE or FALSE Why?	If both pairs of opposite angles in a quadrilateral are congruent, then the quadrilateral is a kite.
21. TRUE or FALSE Why?	If MNOP is a rectangle, then it is a parallelogram.