

Name: _____ Date: _____

Mid Segment of a Triangle

A midsegment of a triangle is a segment that connects the _____ of two sides of a triangle.

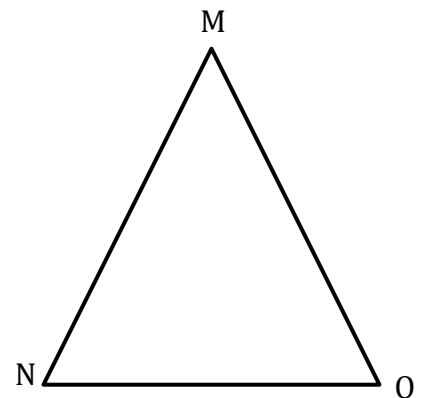
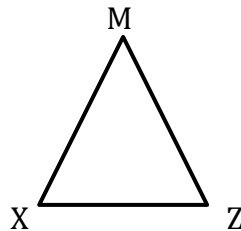
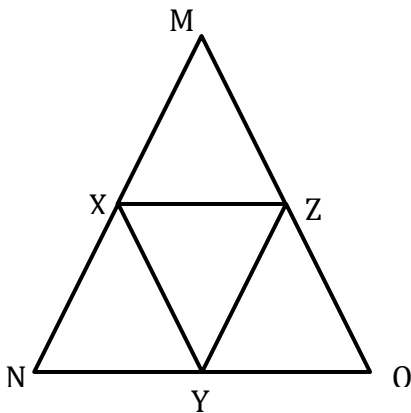
A mid segment of a triangle is _____ to one side of the triangle.

A mid segment of a triangle is _____ the length of the _____.

$$\text{MIDSEGMENT} = \frac{\text{Parallel Side}}{2}$$

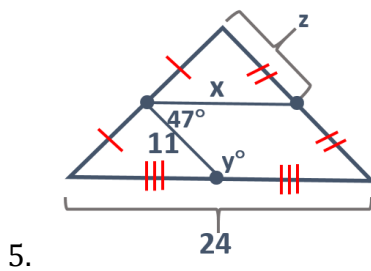
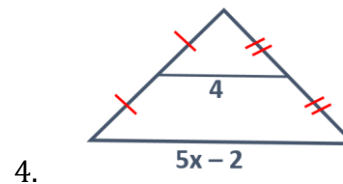
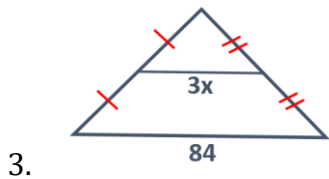
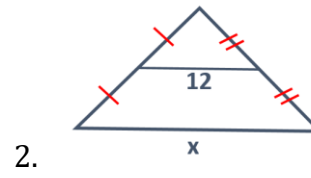
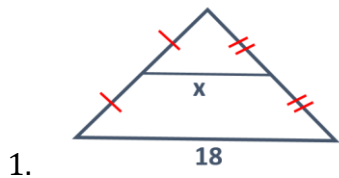
The three mid segments of a triangle divides the larger triangle into _____.

Making Connections Let's look at the three triangles below.



1. If $MX = 3$, then $MN =$ _____.
2. If $NO = 8$, then $YO =$ _____.
3. Label all the lengths we can know on all three triangles from the information above.
4. Look at the relationship between $\triangle MXZ$ and $\triangle MNO$. What does this remind you of?

Examples: For each of the following, solve for the missing variable(s).



Triangle Proportionality

YOU MUST BE CONSISTENT WITH HOW YOU SET UP YOUR PROPORTIONS

Label your triangles (big/small or new/old)

————— *or* —————

Examples: For each of the following, solve for x.

