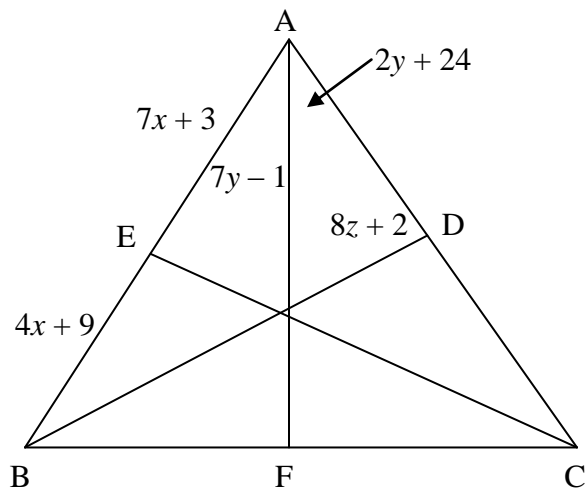


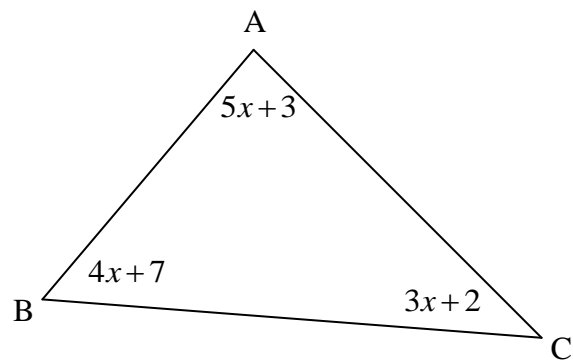
Name _____ Per. _____ Date _____
 Geometry Ch. 5 Practice Test

1. In the following figure $\triangle ABC$, \overline{AF} is an \angle bisector, \overline{BD} is an altitude, and \overline{CE} is a median. Find x , y , and z .

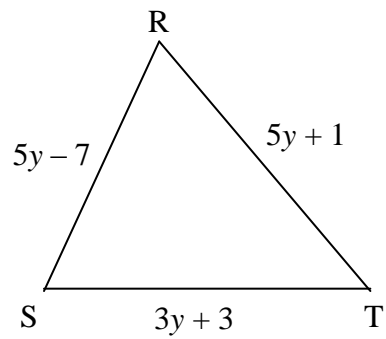


2. Given $\triangle DEF$ with \overline{EG} as a median and $DG = 2x + 1$, $m\angle DEG = 9x + 5$, $m\angle EGF = 19x + 14$, $GF = 3x - 2$, and $m\angle GEF = 11x - 1$. Find x .

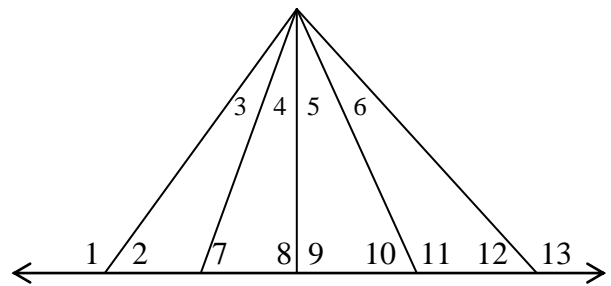
3. List the sides in order from least to greatest.



4. In $\triangle RST$ the perimeter is 49.
List the angles in order from least to greatest in $\triangle RST$.



5. Which \angle is greater, $\angle 9$, $\angle 2$, or $\angle 4$?



6. If the measures of two sides of a triangle are 8 and 19, what are the possible measures of the third side?

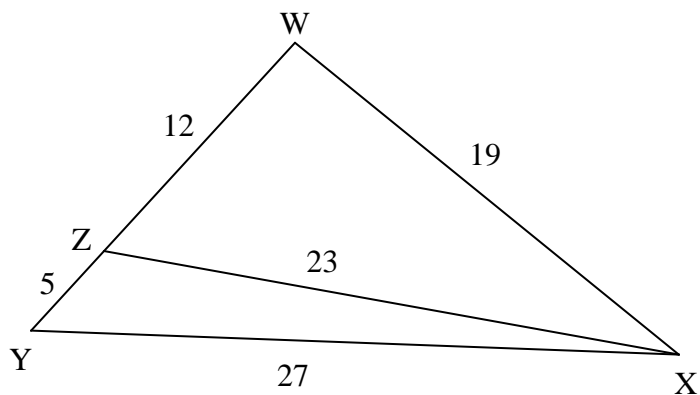
For questions 7-8, determine if it is possible to have a triangle with the give side lengths.

7. 7, 14, 7

8. 5, 5, 2

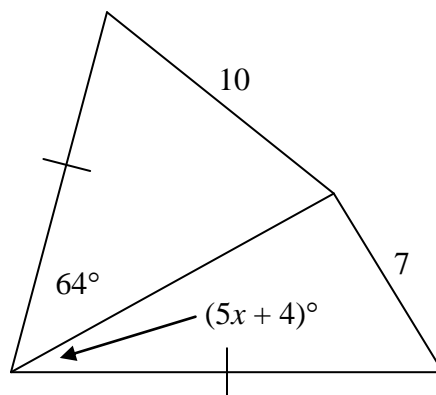
Use the figure below for problems 9-10.

9. Which angle is the smallest
in $\triangle WXZ$?



10. Which angle is the largest
in $\triangle ZXY$?

11. Write a pair of inequalities to describe the possible values of x .



12. Write an inequality to describe the possible values of x .

