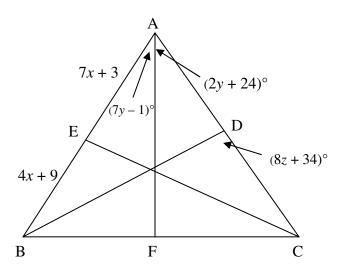
Geometry Ch. 5 Practice Test

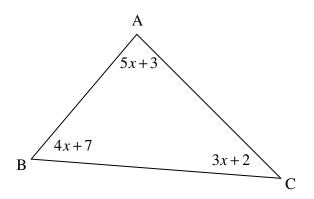
In addition to the following questions, the test will include:

- Using a given diagram, name the altitude, the median, the angle bisector and the perpendicular bisector shown on the diagram. This will show that you know the characteristics of each special segment.
- Given diagrams, complete the picture so that the correct segment is shown with its essential characteristics.
- 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.



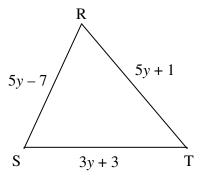
2. Given $\triangle DEF$ with \overline{EG} as a median and DG = 2x + 1, $m \angle DEG = 9x + 5$, $m \angle EGF = 19x + 14$, GF = 3x - 2, and $m \angle GEF = 11x - 1$. Find x.

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

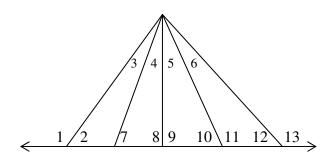


4. In ΔRST the perimeter is 49.

List the angles in order from least to greatest in ΔRST .



5. Which \angle has the greatest measure, \angle 9, \angle 2, or \angle 4?

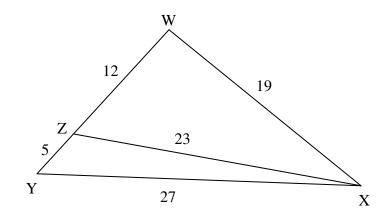


6. If the measures of two sides of a triangle are 8 and 19, what are the possible measures of the third side?

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

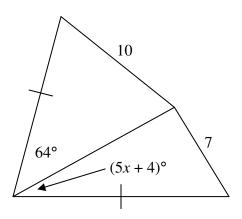
Use the figure below for problems 9-10.

9. Which angle is the smallest in ΔWXZ?



10. Which angle is the largest in ΔZXY ?

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



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

