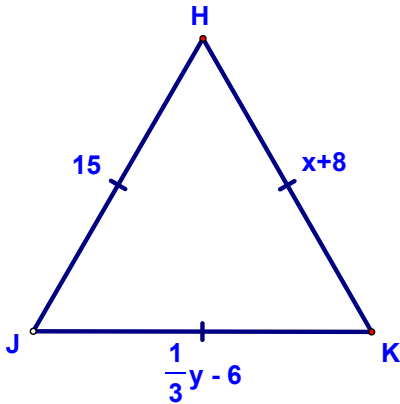


6.

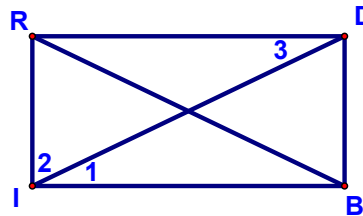
If $\triangle HJK$ is equilateral, what are the values of x and y ?



8.

Given: $\overline{BI} \cong \overline{RD}$
 $\overline{RI} \cong \overline{BD}$
 $\angle 3$ is comp. to $\angle 2$

Prove: $\triangle RIB$ is a right \triangle

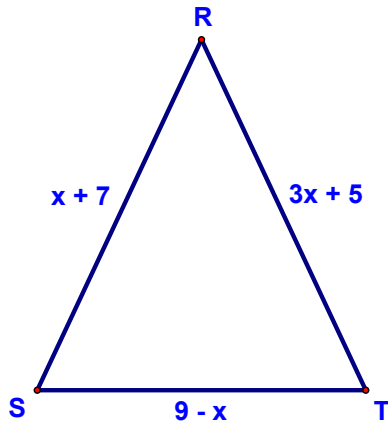


Statements

Reasons

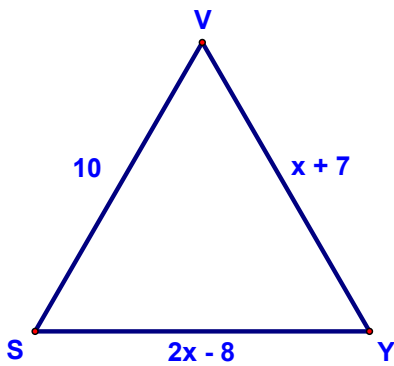
10.

If $\triangle RST$ is isosceles, is it also equilateral?



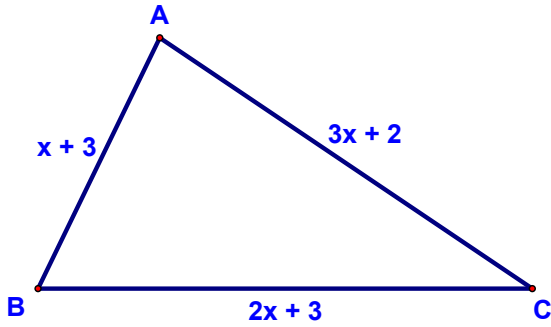
11.

If $\triangle VSY$ is isosceles and its perimeter is less than 45, which side of $\triangle VSY$ is the base?



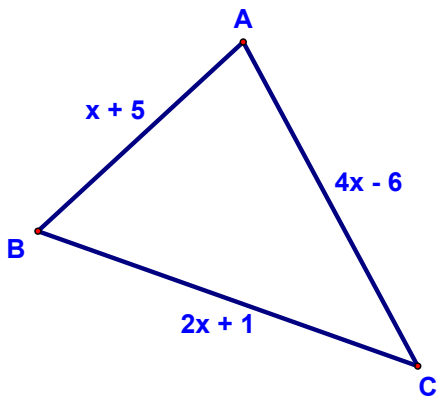
12.

Perimeter of $\triangle ABC = 20$. Show that $\triangle ABC$ is scalene



13.

The average length of the sides of $\triangle ABC$ is 14. How much longer than the average is the longest side?



16.

How many different isosceles triangles can you find that have sides that are whole-number lengths and that have a perimeter of 18?