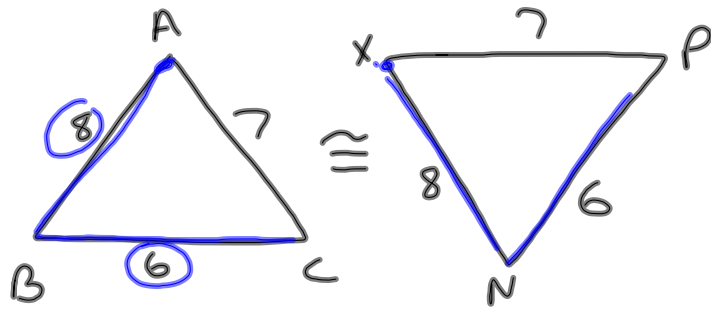
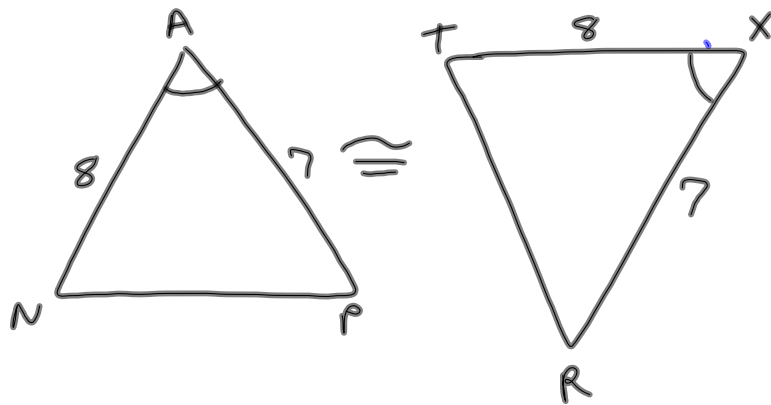


11-5-13
1st Geo



$$\triangle ABC \cong \triangle \underline{XNP}$$

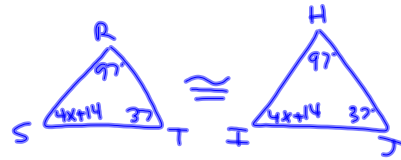


$$\triangle ANP \cong \triangle \underline{XTR}$$

If $\triangle \boxed{ABC} \cong \triangle \boxed{XYZ}$ with
 $\boxed{AB} = 8$, $BC = 10$, and $AC = 11$,
What is n if $\boxed{XY} = 2n$?

$$2n = 8$$
$$n = 4$$

$\triangle RST \cong \triangle HIJ$ with
 $\angle R = 97^\circ$, $\angle J = 37^\circ$, and
 $\angle S = 4x + 14$.
 What is the value of x ?



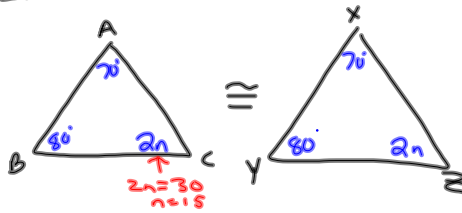
$$4x + 14 + 37 + 97 = 180^\circ$$

$$\begin{array}{r} 4x + 148 = 180^\circ \\ -148 \quad -148 \\ \hline \end{array}$$

$$\frac{4x}{4} = \frac{32}{4}$$

$$x = 8$$

$\triangle ABC \cong \triangle XYZ$ with
 $\angle B = 80^\circ$, $\angle X = 70^\circ$, and
 $\angle Z = 2n$. What is n ?



OR

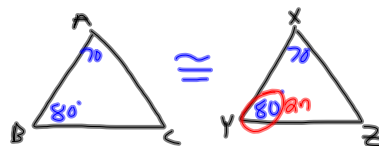
$$2n + 70 + 80 = 180$$

$$\begin{array}{r} 2n + 150 = 180 \\ -150 \quad -150 \\ \hline \end{array}$$

$$2n = 30$$

$$n = 15$$

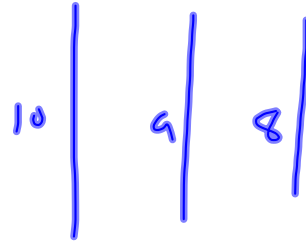
$\triangle ABC \cong \triangle XYZ$ with
 $\angle B = 80^\circ$, $\angle X = 70^\circ$, and
 $\angle Y = 2n$. What is n ?



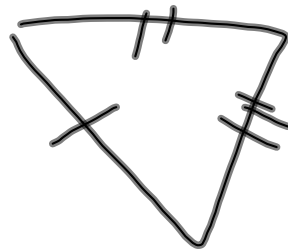
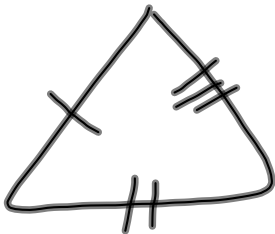
$$2n = 80$$

$$n = 40$$

New thoughts



Triangles you make w/
these pieces must be \cong .



Side Side Side

SSS