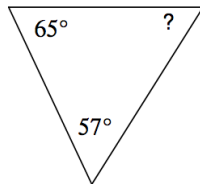


Geo CP - Day 46 - Board Problems - Classify Triangles

Need calculators:

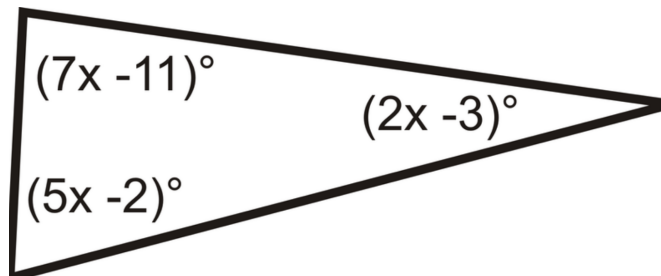
1.) First person, one marker, draw Triangle ABC (be sure they are capital letters)

- Label $m\angle A = 65$ degrees
- Label $m\angle B = 57$ degrees
- Find $m\angle C$ (Ans: 58 degrees)



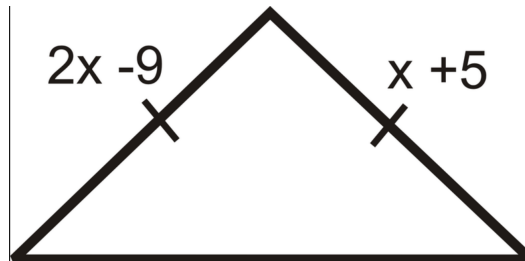
2.) Pass marker, erase. Draw Triangle ABC

- Label $m\angle A = 7x - 11$
- Label $m\angle B = 5x - 2$
- Label $m\angle C = 2x - 3$
- Write and solve an equation to find x . Then, find all measures
- Ans: $x = 14$, $m\angle A = 87$ deg, $m\angle B = 68$ deg, $m\angle C = 25$ deg



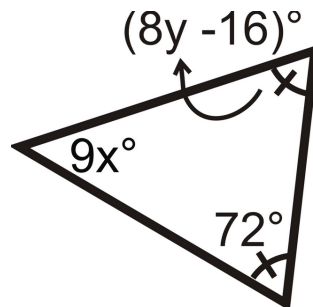
3.) Draw Isosceles Triangle ABC so AB and CB are legs

- Label $AB = 2x - 9$
- Label $CB = x + 5$
- Find x and the measure of both legs. Ans: $x = 14$, Legs = 19



4.) Draw a New Isosceles Triangle ABC so AB and CB are legs

- Label $m\angle A = 72^\circ$
- Label $m\angle B = 9x^\circ$
- Label $m\angle C = 8y - 16$
- Find x and y . Ans: $y = 11$ and $x = 4$



5.) Draw Equilateral Triangle ABC

- Label $AB = 4x + 8$
- Label $AC = 3x + 12$
- Label $BC = 6x$
- Find x and the measure of each side: Ans: $x = 4$, side = 24

