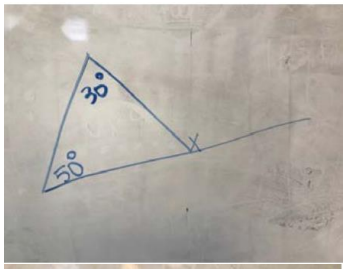
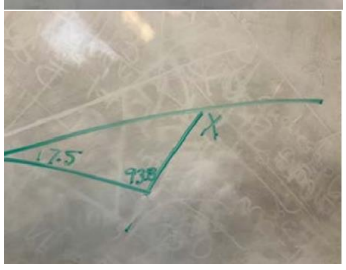
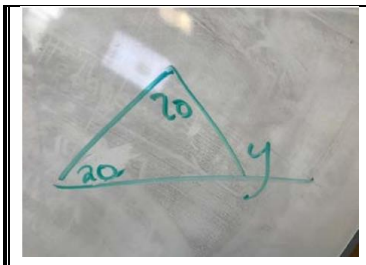
Teaming Task Name: 8TH Grade Math - Geometry

Grade: 8th Subject: Math

Toolkit Component: Readiness Check, Agree/Disagree Cards, Role Cards, Summarizing Thinking Guide, Summarizing Thinking Mat

STANDARD *What is the standard? (include code)*
8.G.A.5 Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles. For example, arrange three copies of the same triangle so that the sum of the three angles appears to form a line, and give an argument in terms of transversals why this is so.
LEARNING TARGET w/ Success Criteria (if available) *What will students learn from the standard?*
• I can make an argument about the measure of an exterior angle of a triangle.

STUDENT LEARNING RESOURCES MINI/FOCUS LESSON *What instruction/resources will students need to learn new content? (video, reading, teaching, etc.)*		**TASK** *What is the task for the learning target? What open-ended questions or statement could you provide for students that allow for multiple responses?*		**STUDENT TEAMING STRUCTURES** *How will students share their thinking? (partner or team) What structures/toolkit components will be used?*
Examples for teaming task:   		What argument can you make about the measure of an exterior angle of a triangle?		Think Time: • Students individually review the examples (see resources) and write an informal argument about the measure of an exterior angle of a triangle. Share Time: • Students share their thinking with their team. Students respond and continue sharing using agree/disagree cards

				Summary Time: • Come to a team consensus. Write the team's informal argument in the middle of the mat. • As a team, create an example to support the argument. Closing: • Teams share and compare examples and determine if the team's informal argument held true for all examples.

Additional suggestions or ideas:

Answer:
If the sum of the interior angles in a triangle is 180 degrees and the sum of two adjacent angles is 180 degrees, then the exterior angle of a triangle is equal to the sum of the two non-adjacent interior angles in a triangle.

Questions to redirect and/or deepen thinking:

- Is there one example where the third interior angle is solved for?
- What is the relationship you notice about the interior angle of the triangle and exterior angle?