3rd Grade Math Curriculum Example

Standard: MAFS.3.OA.1.1 – (T)

Interpret products of whole numbers, e.g., interpret 5 × 7 as the total number of objects in 5 groups of 7 objects each. *For example, describe a context in which a total number of objects can be expressed as 5 × 7.*

Aligned Task

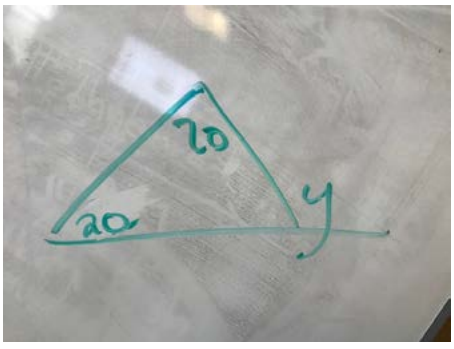
1. Individually, students answer the question: You want to hold a relay race for 24 people. Show multiple ways you can group people to have an even number of participants on each team.
2. As a team, share and compare the different ways that people can be grouped to have an even number of participants on each team.
3. As a team, show all of the ways that people can be grouped to have an even number of participants on each team.
4. Team scouts other team responses to verify if they have shown all the ways to group people. If a teammate sees a way that has not been shown by their group, they become responsible for coaching their teammates to show that new way to group people.
5. Teacher asks teams to answer the question: No matter which way you solved it, what do all the different ways you solved it have in common? (They are all equal groups) *Core Action 2d

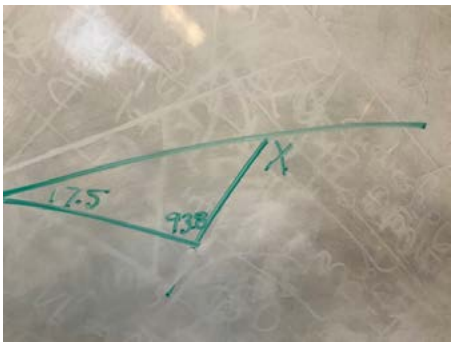
8.G.A.5

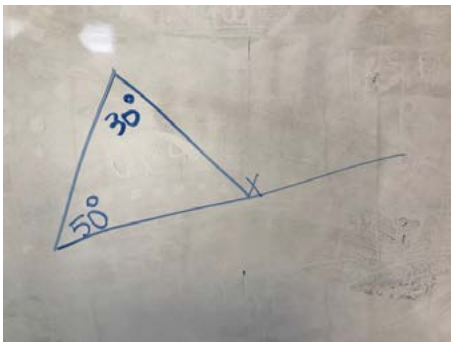
Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles. For example, arrange three copies of the same triangle so that the sum of the three angles appears to form a line, and give an argument in terms of transversals why this is so.

Directions:

1. As a team, read the directions, look at the examples and talk about how to use the team mat
2. Individual: Using the examples, do an exploration and write an informal argument about the measure of an exterior angle of a triangle
3. Team mat: Come to team consensus. Write the team's informal argument in the middle of the mat
4. Individual: Create an example to test the team's informal argument.
5. Team: Share and compare examples and determine if the team's informal argument held true for all examples.







Answer:

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

Micro intervention options to be provided on individual pages for students to access as needed:

- One example has the third interior angle solved for
- Hint: What is the relationship you notice about the interior angles of the triangle and the exterior angle?