



MATH NEWS



Grade 4, Module 4, Topic C

4th Grade Math

Module 4: Angle Measure and Plane Figures

Math Parent Letter

This document is created to give parents and students a better understanding of the math concepts found in Eureka Math (© 2013 Common Core, Inc.) that is also posted as the Engage New York material which is taught in the classroom. Module 4 of Eureka Math (Engage New York) covers Angle Measure and Plane Figures. This newsletter will discuss Module 4, Topic C.

Topic C: Addition of Angle Measures

Words to Know:

Degree -measure of an angle (Subdivide the length around a circle into 360 arcs of equal length. A central angle for any of these arcs is called a one-degree angle and is said to have angle measure of 1° .)

Define	Figure	
Adjacent Angle two angles that have a common side and a common vertex and don't overlap		$\angle QRT$ is adjacent to $\angle TRS$ because they share ray \overrightarrow{RT} or \overline{RT}
Complementary Angle two angles with the sum of 90°		Angle A measures 40° Angle B measures 50° Together they measure 90°
Supplementary Angle two angles with the sum of 180°		Angle A measures 90° Angle B measures 90° Together they measure 180°

OBJECTIVE OF TOPIC C

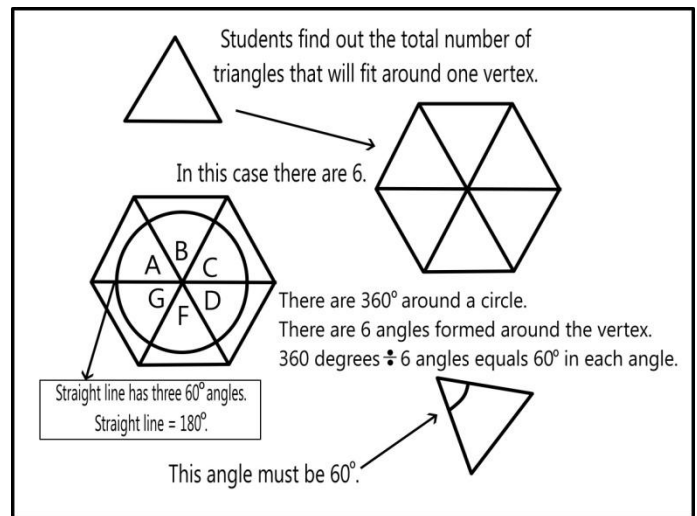
- Decompose angles using pattern blocks.
- Use the addition of adjacent angle measures to solve problems using a symbol for the unknown angle measure.

Focus Area- Topic C

Addition of Angle Measures

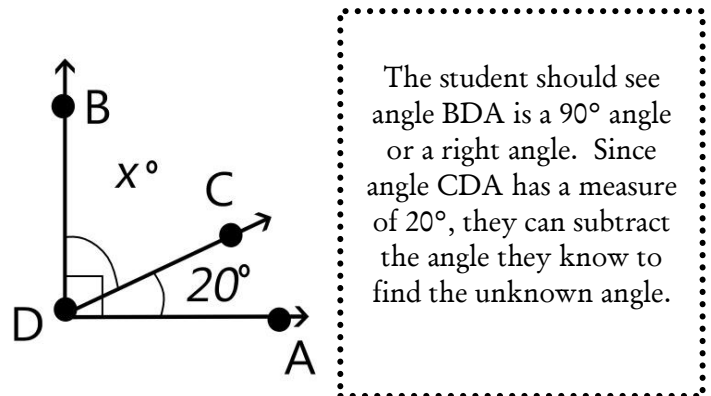
Example Problem and Answer

In class, students will use concrete examples to discover the additive nature of angle measure. Working with pattern blocks, they see that the measures of all of the angles at a point, with no overlaps or gaps, add up to 360 degrees, and they use this fact to find the measure of the pattern blocks' angles.



The students will write addition and subtraction equations to solve unknown angle problems.

Write an equation and solve for the measure of $\angle BDC$.



$$90^\circ = 20^\circ + X^\circ \quad \text{or} \quad 90^\circ - 20^\circ = X^\circ$$

$$X = 70^\circ$$