

# MATH NEWS

Grade 2 Module 8 Topic C

## 2<sup>nd</sup> Grade Math

### **Module 8: Time, Shapes, and Fractions as Equal Parts of Shapes**

#### **Math Parent Letter**

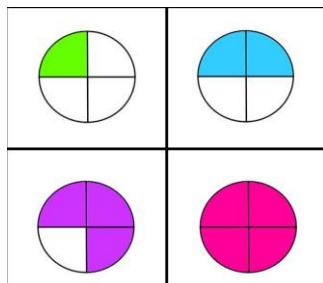
This document is created to give parents and students a better understanding of the math concepts found in Eureka Math (© 2013 Common Core, Inc.) that is also posted as the Engage New York material which is taught in the classroom. Module 8 of Eureka Math (Engage New York) covers time, shapes and fractions as equal parts of shapes. This newsletter will discuss Module 8, Topic B.

#### **Topic C: Halves, Thirds, and Fourths of Circles and Rectangles**

##### **Words to Know:**

**Congruent:** same size and same shape

**Fraction:** part of a whole



#### **OBJECTIVE OF TOPIC C**

Partition circles and rectangles into equal parts, and describe those parts as halves, thirds, or fourths.

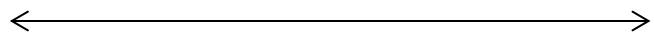
Describe a whole by the number of equal parts including 2 halves, 3 thirds, and 4 fourths.

Recognize that equal parts of an identical rectangle can have different shapes.

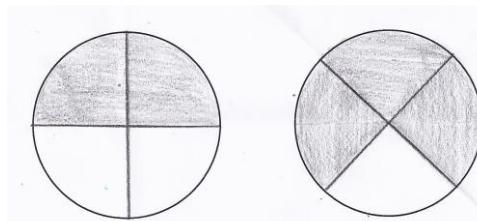
## **Focus Area– Topic C**

### *Halves, Thirds, and Fourths of Circles and Rectangles*

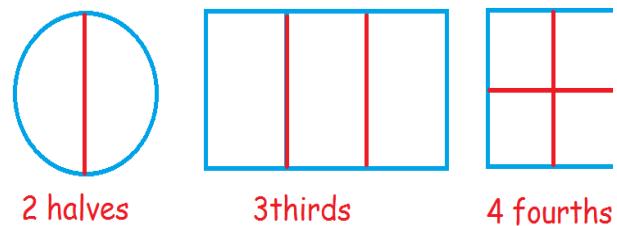
Topic C focuses on partitioning circles and rectangles into equal fractional parts. As students are shown pictures of partitioned shapes, they are asked to determine whether the shaded (or unshaded) portion represents half of the figure. They also learn to decompose a whole into three equal parts to create thirds. Given a variety of partitioned shapes, students are asked to determine how many thirds or fourths are represented by the shaded (or unshaded) portion. Finally, students synthesize their understanding of halves, thirds, and fourths by partitioning a pizza and a rectangular sheet cake, making decisions based on their share of the pie or cake.



#### **Fractions Samples**



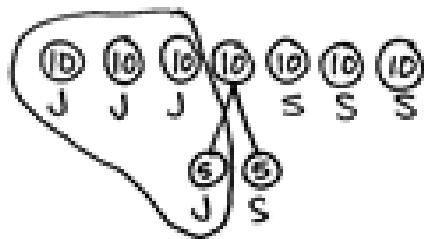
2 fourths      3 fourths



2 halves      3 thirds      4 fourths

## Sample Problem:

Jacob had collected 70 baseball cards. He gave half of them to his brother Sammy. How many baseball cards does Jacob have left?



$$10 + 10 + 10 + 5 = 35$$

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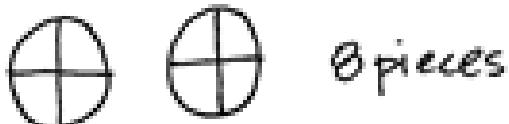
$$35 + 35 = 70$$

Jacob still has 35 baseball cards.



## Sample Problem:

Tugu made two pizzas for himself and his 5 friends. He wants everyone to have an equal share of the pizza. Should he cut the pizza into halves, thirds, or fourths?



Tugu should cut his pizzas into thirds.