



# MATH NEWS



Grade 3, Module 5, Topic B (Lessons 5-9)

## 3<sup>rd</sup> Grade Math

Module 5: Fractions as Numbers on the Number Line

### Math Parent Letter

This document gives parents and students a better understanding of the Eureka math concepts that are taught in the classroom. Module 5 of Eureka Math covers Fractions as Numbers on the Number Line. This newsletter will discuss Module 5, Topic B (Lessons 5-9).

Topic B. Unit Fractions and Their Relation to the Whole

### Vocabulary Words

- Equal Parts
- Unit Fraction
- Partition
- Copies of
- Fractional Unit
- Non-Unit Fraction
- Unit From

### Things to Remember!!!

Non-Equal Parts	Equal Parts
Remember the denominator is how many equal parts the whole is divided into.	

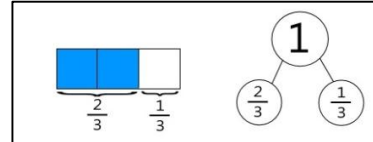
## OBJECTIVE OF TOPIC B

- 1 Partition a whole into equal parts and define the equal parts to identify the unit fraction numerically.
- 2 Build non-unit fractions less than one whole from unit fractions.
- 3 Identify and represent shaded and non-shaded parts of one whole as fractions.
- 4 Represent parts of one whole as fractions with number bonds.
- 5 Build and write fractions greater than one whole using unit fractions.

## Focus Area– Topic B

Unit Fraction and Their Relation to the Whole

Students will understand that both the shaded and non-shaded part makes the whole. They must also represent this as a number bond.



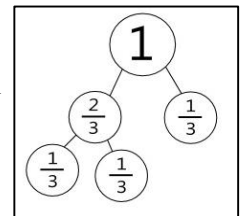
What fraction of the image is shaded?  
 $\frac{2}{3}$  or 2 thirds of the shape is shaded.

What fraction of the image is non-shaded?  
 $\frac{1}{3}$  or 1 third of the shape is non-shaded.

Total number of equal parts 4  
 Total number of shaded parts 2  
 Unit form 2 - fourths  
 Fraction  $\frac{2}{4}$

Students will gain a better understanding of what each part of the fraction represents. They will also gain a better understanding of unit form and numeric form (fraction).

When asked to decompose a whole into unit fractions, students should understand that a unit fraction is a fraction with 1 as the numerator. Once they gain this understanding they should be able to see that  $\frac{2}{3}$  is not a unit fraction and that they should decompose it further.



Towards the end of this topic students will learn that some fractions are larger than 1 whole. They will be asked how many copies of a fraction are in 1 whole.

Unit fraction  $\frac{1}{3}$   
 Units Shaded 5  
 Fraction shaded  $\frac{5}{3}$  or  $1\frac{2}{3}$

There are 3 copies of  $\frac{1}{3}$  in one whole. There are 6 copies of  $\frac{1}{3}$  in two wholes. They should understand that a unit fraction will remain the same because there are 3 parts to 1 whole. Students should recognize that  $\frac{5}{3}$  is 1 whole and part of another whole.