

MATH NEWS



Grade 5, Module 4, Topic B

5th Grade Math

Module 4: Multiplication and Division of Fractions and Decimal Fraction

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 <u>Engage New</u> <u>York</u> material which is taught in the classroom. Grade 5 Module 4 of Eureka Math (Engage <u>New York</u>) covers Multiplication and Division of Fractions and Decimal Fractions. This newsletter will address fractions as division.

Topic B. Fractions as Division

Words to know

- Tape Diagram
- Algorithm

- Unit/Unit Form
- Equation

Things to Remember:

Tape Diagram- Drawing that looks like a segment of tape, used to illustrate number relationships.

• Examples of Tape Diagram

Two hundred seventy-three vehicles were parked in a parking lot. One-third of the vehicles were trucks. How many trucks were in the parking lot? **273 vehicles**



3 units(sections) = 273 1 unit (section) = $273 \div 3$ = 91 trucks

OBJECTIVES OF TOPIC B

- Interpret a fraction as division.
- Use tape diagrams to model fractions as division.
- Solve word problems involving the division of whole numbers with answers in the form of fractions or whole numbers.

Focus Area- Topic B

Module 4: Fractions as Division

Regg has 7 crackers that he wants to share between his friend Gabe and himself equally.



14 halves $\div 2 = 7$ halves

Each boy would get 3 ¹/₂ crackers.

check:
$$2 \times 3\frac{1}{2}$$

= $3\frac{1}{2} + 3\frac{1}{2}$
= $6 + \frac{2}{2}$
= 7 crackers

Application Problems

Using a picture, show how friends Sally, Adam, and Mandy could share two candy bars. Write an equation, solve, and check.



Mark ran a total of 5 miles in 3 days. If Mark runs the same distance every day, how many miles does he run each day?



American Cookie Company uses 6 cups of chocolate chips to make 8 batches of mini chocolate chip cookies. If each batch uses the same amount of chocolate chips, how many cups of chocolate chips are used? (Solve using drawing, algorithm, and check your answer.)

6 cups shared equally in 8 batches of cookies

