Mathematics
Georgia Standards of Excellence
7th Grade—Unit 1
SAMPLE

<u>**Situation #1:**</u>

Use the ledger to record the information and answer the questions.

Note: On August 12, your beginning balance is $0.00

1. On August 16, you receive a check from your Grandmother for $40 for your birthday.

2. On August 16, you receive a check from your Parents for $100 for your birthday.

3. On August 17, you purchase a pair of pants from Old Navy for $23.42.

4. On August 18, you find $5.19 in change during the day.

5. On August 19, you purchase socks from Wal-Mart for $12.76.

DATE	TRANSACTION	PAYMENT (-)	DEPOSIT (+)	BALANCE
8/16	Beginning balance			$0.00

A. What is your balance after five transactions?

B. How much money did you deposit (show as a positive value)?

C. How much money did you pay or withdraw (show as a negative value)?

<u>**ESTRATEGIAS PARA LA ENSEÑANZA Y EL APRENDIZAJE de 6° GRADO**</u>

Measurement Interpretation of Division with Fractional Divisors

Use a model (e.g., manipulative materials, pictures, number line) to find the answers to the problems below. Be sure to write a number sentence to illustrate each situation.
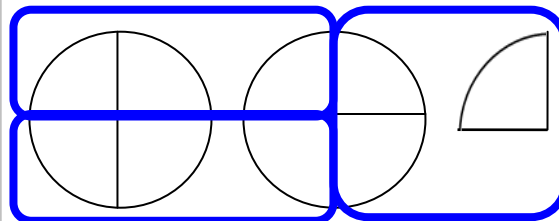
1. It's your birthday and you are going to have a party. From the grocery store you get 6 pints of ice cream. If you serve 3/4 of a pint of ice cream to each of your guests, how many guests can be served?

Typically students draw pictures of six items divided into fourths and count out how many servings of ¾ can be found. The difficulty is in seeing this

$$6 \div \frac{3}{4}$$

as   , and that requires some guidance on the teacher's part. Try to compare the problem to one involving whole numbers (6 pints, 2 per guest).

2. Sam is a landscaper. He found that he had 2-1/4 gallons of liquid fertilizer concentrate. It takes 3/4 gallon to make a tank of mixed fertilizer. How many tankfuls can he mix?

This question asks, "How many sets of three-fourths are in a set of 9 fourths?" Sam can mix 3 tankfuls.

Georgia estándares de excelencia

Georgia Standards of Excellence (GSE)

El 19 de febrero de 2015, la Junta Estatal de Educación (State Board of Education—SBOE) votaron por cambiar el nombre de la ELA y Matemáticas normas a la Georgia estándares de excelencia (Georgia Standards of Excellence—GSE). La SBOE recientemente revisado y aprobado las normas ELA y Matemáticas para su ejecución a principios del año escolar 2015-2016 se llama el ELA y Matemáticas Georgia estándares de excelencia (GSE).

Georgia Performance Standards

The performance standards provide clear expectations for instruction, assessment, and student work. They define the level of work that demonstrates achievement of the standards, enabling a teacher to know "how good is good enough."

The performance standards isolate and identify the skills needed;

- To use the knowledge and skills to problem-solve,
- To reason,
- To communicate, and
- To make connections with other information.

They also tell the teacher how to assess the extent to which the student knows the material or can manipulate and apply the information.

See: https://www.georgiastandards.org

8th GRADE MATH SAMPLE—Unit 5

The copyrighters for the publisher's website also asked that the information be represented for them so they can tell how many pages are in a book based on its thickness.

Based on the request, determine the variables in the relationship, the independent variable, and the dependent variable.

Independent variable - *thickness of manuscript in centimeters*

Explain your reasoning. *The thickness of the book is the independent variable because it determines how many pages are in the manuscript.*

Dependent variable - *pages in the manuscript*

Explain your reasoning. *The number of pages is determined by the thickness of the manuscript.*

Using the information from problem 5, Create a table for manuscripts from zero to 10 in 2 cm intervals.

Solution

Thickness in cm (t)	Pages in book (P)
0	0
2	160
4	320
6	480
8	640
10	800

What does a performance standard contain?

The performance standard incorporates the content standard, which simply tells the teacher:

- what a student is expected to know (ie., what concepts he or she is expected to master).

Additionally, it adds to these concepts by providing three additional items:
1. suggested tasks,
2. sample student work, and
3. teacher commentary on that work.