N	ame	
	anno	

#### **Flow Chart**

Write your topic at the top. List steps or events in time order.

\_\_\_\_\_



Name	

### **KWL Chart**

Before you begin your research, list details in the first two columns. Fill in the last column after completing your research.

Торіс						
What I Know	What I Want to Know	What I Learned				

Ν	а	m	ne
	-		-

Date \_\_\_\_\_

## T-Chart

Add details to each column.

	Subject:	Subject:
All Bintes Reserved		
		τ
5		
C		C

\_\_\_\_\_

```
Date _____
```

#### **Cluster/Word Web 3**

Write details about your topic in the circles.



Name	Date
	Taaakan
	leacher

Web Site Profiler

Date
Expertise

Name	Date
Class/Subject	Teacher
Wh	eel & Spoke Diagram

Thinkport © 2003

Name \_\_\_\_\_

Copyright @ Houghton Mifflin Company. All Rights Reserved.

### Step-by-Step Chart

Write each step in order. Add details.

Materials	
Steps	Details
Step 1:	
Step 2:	
Step 3:	
Step 4:	
Step 5:	

A message about the first day of teaching.

Source: A website dedicated to teachers helping teachers.

The following plea for help has come from a newly appointed teacher who wishes to remain anonymous.

On the first day of my teaching career, I defined a rational number to my class as a number that can be expressed as a ratio of integers. A student asked me: What exactly are ratios? How do ratios differ from fractions? I gave some answers that I was not satisfied with. So, I consulted some other teachers and texts. The result was confusion.

I find that opinions and texts vary about the definitions of these terms. Please tell me how ratios, rational numbers and fractions should be defined to make their distinguishing properties meaningful to the high school students. To convince you why it is confusing, I am giving below a sample of definitions of ratios and fractions from different texts.

'A comparison of two quantities by division is a ratio.'

'A fraction is a comparison of two numbers. Another word for the comparison of two numbers is ratio.'

'A ratio is the comparison of two quantities that have the same units.'

'A ratio of two quantities is their quotient. For example, the ratio of 3 oranges to 5 oranges is 3/5.'

'A ratio is a comparison of two quantities, usually expressed as a fraction. In fact, a fraction is frequently called a 'rational number,' because one meaning of the word rational is 'having to do with ratios'.'

'An indicated quotient of two numbers is often called a ratio.'

'For any two positive numbers, a and b, the ratio of a to b is a/b. This is sometimes written as a : b.'

'Any fraction may be considered as a ratio of its numerator to its denominator.'"

The website included some recommendations. One teacher suggested a word chart. How could such a graphic organizer help this teacher's students get and stay clear?

Term	Explanation	Example

# **Quantitative Reasoning: Analyze Patterns**

Title: \_\_\_\_\_

Explain what the graph shows.

# **BAR GRAPH**

Title of the Graph

Analysis of the Graph

# LINE GRAPH

Use quantitative information about something that changes over time.

1. Locate and collect information about a situation that changes over time.

2. Use that information to make a line graph.

Title of the Graph

Analysis of the Graph

# **GRAPH PROPORTIONS**

1. Locate and collect information about a topic or situation.

Topic/Situation:

2. Use that information to make a circle graph.



Title of the Graph

Key:

Analysis of the Graph

#### **Show Differences and Similarities**



Explain what your Venn diagram shows.









Long Divis	ion Algorithm
Procedure	$\frac{4x^3 - 11x - 4}{2x - 3}$
$\sum_{\substack{1^{st} \\ W}}^{1^{st}} \text{Divide first}$	
2 <sup>nd</sup> Aultiply times the divisor.	
Subtract by 3 <sup>rd</sup> Changing the signs M and adding.	$\frac{6x^{3}+x^{2}+4x-5}{3x+2}$
A <sup>th</sup> Bring down the next 4 <sup>th</sup> term and begin the process again.	
Graphic Organizer by Dale Graham and Linda Meyer Thomas County Central High School; Thomasville GA	





#### How Do You Solve a System of Equations by Linear Combination?



Graphic Organizer by Dale Graham and Linda Meyer http://www.sw- georgia.resa.k12.ga.us/Math.hgeorgia.resa.k12.ga.us/Math.html







Graphic Organizer by Karen Capuano

## **Possible Answers**



# What are the different types of numbers?





# How do you find the slope of a line given two points on the line?





## How do you solve absolute value inequalities?