Mathematics In The News

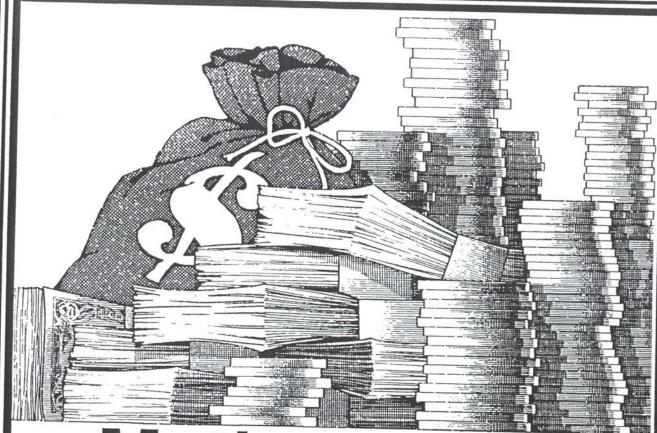
Written by Ann West, NIE Consultant
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Newspaper In Education



Mathematics In The News

Written by Ann West, NIE Consultant

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Mathematics in the News

	Language Arts	Mathematics	Science	Social Studies	the Arts	Health	PF	Foreign Lang
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Introduction

USING THE NEWSPAPER IN MATHEMATICS-A RATIONALE

The use of the newspaper in each curriculum area can assist the classroom teacher in motivating students by making more relevant the skills and concepts being learned in school. Mathematics In The News is a publication intended for upper level elementary students, middle school students and high school students in the application of practical math skills in the newspaper. Perhaps one of the greatest obstacles to learning, from a student's point of view, is that the work being completed in the classroom has no meaning, no application, outside the classroom walls. The newspaper can be a valuable tool for the mathematics teacher in convincing students that consumer and basic math skills are critical in everyday life. From a simple calculation of the total cost of a few grocery products to the more challenging calculations of total financed cost of a car or a house, the newspaper is an extremely viable tool for introduction to real life problemsolving techniques via mathematics. Of course, mathematics textbooks play an important role in introduction of fundamental techniques and can provide lifelike problems for students to solve. But the major component that the use of the newspaper can bring to the mathematics classroom is a segment of reality, with prices, interest rates, taxes, etc. changing every day. Students must be prepared to learn on their own, for the variables and rules do and will change throughout their lives. It is important that the classroom teacher take every opportunity to use current, relevant resource materials to assist students in learning independently. A byproduct of using the newspaper in the mathematics classroom will be a realization on the part of students that mathematics is an important part of their life, both present and future. Our hope as educators is that we have prepared our students to learn and to enjoy learning for a world that we may not easily predict and that requires that learning continue far beyond the hours and days spent in the classroom.

THE NEWSPAPER-CLASSROOM TECHNIQUES

The math activities contained in this publication are intended to assist the teacher by providing ideas and structure for the use of the newspaper in math classes, which may be somewhat of an innovation to teachers who have not used the newspaper in the classroom before. It is important that the teacher carefully screen each activity prior to use, checking to see what skills or concepts are required for successful completion. Some of the activities contain formulas or instruction for calculation; some are written with the assumption that students know well the techniques for successful completion. Though these activities are written so that the teacher may choose for students to work independently, this approach for use may require careful scrutiny on the part of the teacher so that students are prepared to handle the required task. Activities that require knowledge of local information, such as sales tax, usually contain a suggested amount for use in calculation so that students will be able to solve problems, given any variable. What is very important is that any activity that refers to use of specific, local information be carried out so that the activity is localized and relevant for the student. Teachers may desire to modify an activity to meet student needs. The activities in Mathematics In The News are intended to spark the enthusiasm and creativity of students and teachers. Though this guide is comprehensive in the scope of consumer mathematics, it by no means covers all the territory of newspaper use in mathematics applications. Be creative; learn from the use of this guide; modify to meet individual needs; structure new activities; be enthusiastic about this very important contemporary resource in your classroom!

CONTENTS OF MATHEMATICS IN THE NEWS

The first 50 activities in this guide provide more comprehensive introductory information, instructions and space for calculation. This activity sheet format may assist the teacher in evaluation of student work, without collecting whole pages of the newspaper from students. The supplemental activities are intended to offer additional ideas that may, if the teacher desires, be developed into activity sheet format. The supplementals may also be used for an opportunity for extra credit, extra practice, or for filling small time periods with an educational activity. Teachers may frequently have a few minutes of time due to shortened class periods, assemblies, etc. This is an excellent time to devote 5-10 minutes working with math skills in the newspaper. Use the newspaper to get students' attention quickly and to hold their attention with

OBTAINING NEWSPAPERS FOR YOUR CLASSROOM

Most major newspapers have active NIE (Newspaper in Education) programs to provide teachers and students materials and training for working on classroom skills in the newspaper. Newspapers usually offer discount prices on classroom sets of newspapers for student use. Contact this newspaper to find out more about specific pricing of classroom newspapers. When you order the newspaper for your students, remember that ordering one newspaper per student will help ease the teacher's task of managing this classroom resource and that students will take great pride in ownership of their own newspaper for use inside and outside the

Ann West, Author

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About the author...

This NIE guide was written by Ann West, Newspaper in Education consultant. Mrs. West has served as a teacher and administrator in public school systems in Missouri for over 15 years. Formerly NIE director for The Kansas City Star Co., she is now president of News Relief, Inc., a consulting and publishing business in Overland Park, Kansas. Nationally known as a newspaper in education consultant, her other newspaper publications include Science In the News, It's NIE For K-3, Reading Realities, On The Sidelines, and Comic Strips...Newspaper Capers.

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Activities in the book may be photocopied for use in the classroom.

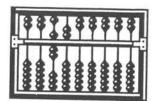
ACTIVITY	#
ACTIVITY	

SKILL

Mathematics Scavenger Hunt Locating math concepts in the newspaper

STUDENT NAME_

Numbers of every kind may appear in every edition of your newspaper. Numbers are used to quote prices in ads, to provide page references, to give addresses and telephone contacts, to give directions in recipes, etc. Our world depends on numbers for communication.



Instructions...

•Use your skill and speed to find examples of various types of numbers from the list below. Note each example you

partner or on your o	and the section and page number where eac wn.	h example was found. You may work with a
•Time yourself for this	activity from beginning to end and note your	times below.
<u>Find</u>	Example	Section & Page
A percentage		
A whole number written in words		
A zip code		
A mixed number		
A number containing a decimal		
A measurement		
A fraction		
An amount of money		
An age		
A calendar date		
	Beginning Time Amount of Time to Comple	
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2

ACTIVITY SKILL

Mathematics Search

Review of mathematics terms

STUDENT NAME

Newspapers contain evidence of consumer activities in our daily lives. Advertisements, news stories, comic strips, business news and sports pages may frequently chronicle or refer to the consumer activities in which we are involved from day to day.



- •Locate and clip several paragraphs or ads containing math-related terms, e.g., stock market, fraction, installment, appraisal, interest, savings, etc.
- •Paste or tape your paragraphs or ads on this activity sheet. Circle the math-related terms in each of your examples. (Try to include at least 15 different math terms in your examples.)

ACTIVITY #
ACTIVITY

3

Cookin' Up A Storm

SKILL

Counting/multiplying/dividing

STUDENT NAME

We often use basic math skills in daily life without realizing it! Newspaper recipes provide readers with countless ideas for good eating. These recipes usually provide us with information for a specific *yield*, or number of servings.



Incre	uctions	
111311	HUILDINS.	
	400000000	١

- •Find a recipe in your newspaper that you find appealing. Clip it out and attach it to this page.
- •Identify the number of ingredients required for the recipe and write this number in the space provided.
- •In the two spaces indicated, write the amount of each ingredient needed if the recipe were **doubled**, and the amount needed if you want to **halve** the recipe.

Total Number of Ingredients in Recipe _____

Amount of Each Ingredient For Recipe If Doubled

Amount of Each	Ingredient
For Recipe If	Halved

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ACTIVITY SKILL

Divide And Conquer! Identifying divisibility of numbers

STUDENT NAME_

Numbers in the newspaper are used to provide statistical information, prices, locations, etc. Each number in the newspaper can be divided by another number, but finding exact divisibility without a remainder requires knowledge of some simple guidelines.



- •Use your newspaper to find examples of numbers divisible by 10, 5 and 3. When you find these numbers, clip them from the newspaper and paste them in the spaces below. To complete this activity successfully, you need to remember some simple guidelines. Review these guidelines with your teacher and write them below each category title.
- •When you have completed this activity, discuss other rules of divisibility for other numbers. Select one other number and complete the final segment of the chart.

Numbers In The Newspaper Divisible by 10	Numbers In The Newspaper Divisible by 5	Numbers In The Newspaper Divisible by 3	Numbers In The Newspaper Divisible by
A guideline to remember to find numbers divisible by 10	A guideline to remember to find numbers divisible by 5	A guideline to remember to find numbers divisible by 3	A guideline to remember to find numbers divisible by
Numbers Found	Numbers Found	Numbers Found	Numbers Found

5

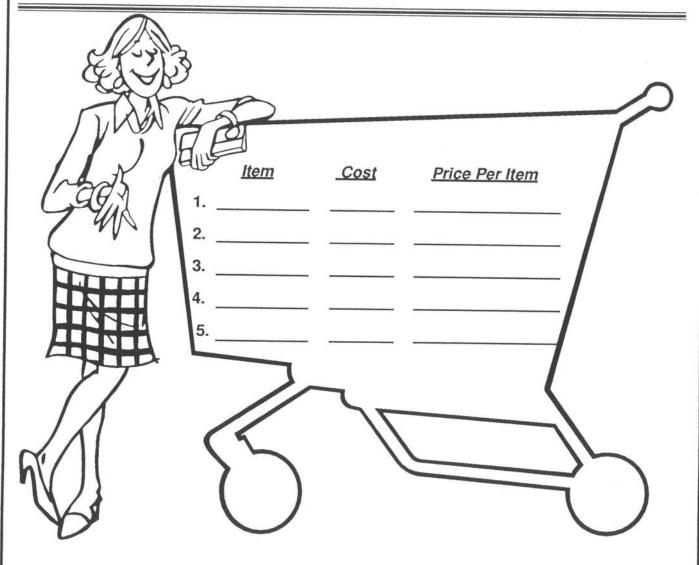
ACTIVITY SKILL Can't Beet This Bargain! Dividing Whole Numbers

STUDENT NAME

Shopping for bargains is a daily activity for many consumers. The newspaper provides summaries of "bargains" in its advertising, especially in the grocery advertising sections. Often, it is necessary to make some quick calculations to determine the best buy.



- •Use your newspaper to locate the grocery advertisements.
- •Find five (5) different foods or grocery products that are advertised by one price for multiple items (Example: 2 cans of beets for 99¢)
- •List below each item, the unit price and the price per item (Use division to compute the price per item.). Round your answer up to the nearest penny, if there is a remainder.



ACTIVITY #
ACTIVITY

6

Ballpark Salaries

SKILL

Division/problem-solving

STUDENT NAME

The sports pages often report on the games at the ballpark, but news of the serious business of sports income and the salary negotiations with players will also be reported in the sports section. It is interesting to calculate what players earn on a weekly or monthly basis



Instructions...

- •Locate information in the sports pages of the newspaper about player salary negotiations. You may select any professional sport (or a combination of sports) for the following salary calculations.
- •In the space below, list five player salaries that you find mentioned.
- •Calculate the average salary earned by each player on a monthly and weekly basis.

Player	<u>Sport</u>	Annual Income	Monthly Income	Weekly Income
		(_	
	-	-		
	V			Q*************************************
		-		



Use this space to show your calculations...

7

ACTIVITY

Write It Out

SKILL

Translating numerals into word form

STUDENT NAME



A reader can find numbers in the newspaper written in numeral and word form. Larger numbers are usually written in numeral, rather than word form for easiest reading. Translating numerals to word form is an important skill in writing checks!

- •Using the newspaper, cut out 10 whole numbers containing 4 or more digits and paste them in the space below.
- •Write out the numbers in words next to each number you cut out.

EXAMPLE: <u>3523</u>	
3	
4	
5	
6	
7.	
8	

ACTIVITY #
ACTIVITY

SKILL

8

All-American Scoreboard Subtracting whole numbers

STUDENT NAME

The sports standings published in the newspaper provide information important to the sports fan. Final scores of games and team standings in leagues are often part of the newspaper's attempt to keep fans of soccer, hockey, football, baseball, basketball, etc. informed.



- •Locate the team standings of your favorite sport in the sports pages of your newspaper.
- •In the columns below list the top 10 teams in the league, the number of wins for each team and the number of losses for each team.
- •In the final column, list the difference between the wins and losses for each team.



<u>Team</u>	Wins	Losses	<u>Difference</u>
1			
2			
3			
4			
5			
3			
3			
0			

SKILL

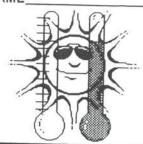
ACTIVITY

About 40 Degrees

Rounding numbers to the nearest ten

STUDENT NAME

The weather page or section of a newspaper provides specific, important information to the reader who has interest in the weather. Temperature figures to express highs and lows are quoted exactly from the weather services. For the most part, we readers are happy to know approximately what the high temperature for the day may be.



- •From your newspaper's weather section, select 12 cities and their forecast high temperatures.
- •Write the name of each city, its high temperature forecast and round off the forecast high to the nearest 10.

Name Of City	Forecast High Temperature	Rounded Temperature
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		:
12		

10

ACTIVITY

To The Nearest Dollar

SKILL

Rounding numbers to the nearest dollar

STUDENT NAME

It doesn't take long for a newspaper reader to realize that numbers used in advertising products in the newspaper are not often "rounded" to the nearest dollar. After all, \$799 for a sofa may sound and look much less expensive than \$800. There are many numbers in the newspaper that can be rounded to the nearest dollar, an important skill for any consumer to practice.



Instructions...

- •Use your newspaper to find numbers which can be rounded to the nearest dollar. You may use numbers from advertising for groceries, clothing, furniture, etc.
- •Clip ten numbers and paste them below. By each number, revise by rounding to the nearest dollar.

Numbers From The News

Rounded Numbers



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11

ACTIVITY SKILL The Conservative Party Comparing grocery prices

STUDENT NAME_

A very important service most newspapers provide for their readers is grocery ads and inserts that can be helpful in planning food shopping lists. It may take a reader more time to plan out a grocery list and shop for the best prices, but the money saved will be worth it!



- •Plan a party for 15 of your friends. You have been given \$50.00 to spend on food and beverages.
- •Use your newspaper to obtain price quotes on the items listed in the chart below. You will need to look for the items at two different grocery stores to compare and evaluate where you will shop for your party supplies.
- •Calculate how much the total grocery bill will be at each grocery store.

	Grocery Store #1	Grocery Store #2
Party Items Needed/Amount	Quantity Total	Quantity Total
Soda-		
Cheese-		
Potato Chips/Dip-		
Crackers-		
Ice Cream-		
Other-		
Totals		



12

ACTIVITY

The Best Buy

SKILL

Comparing prices on similar items

Grocery advertising is intended to inform the reader of the best prices on grocery items at local retail markets. Comparing prices and deciding on where to shop can be confusing, unless a consumer actually collects and compares information on the lowest cost pricing.

STI	JD	ENT	NA	ME
-----	----	-----	----	----



Instructions...

- •Use the grocery advertising in your newspaper to complete the price comparison chart below.
- •Fill in the blanks as completely as possible, given the information provided to you in the advertising by various stores.
- •Complete the activity by indicating in the space provided, at which store you would choose to buy groceries during the week and explain your decision.

Price Comparisons I	or The	e Wee	k Of _				
Grocery Store Name			Price	of Ite	ems To Be Co	mpared	
	Bread Loaf	Milk Gal.	Sugar 5 lbs.	Eggs Doz.	Orange Juice Per Can	Ice Cream 1/2 Gallon	Ground Beef Per Pound
-							

Explain which grocery store would get your business this week and why...

What factors might affect the store choice of a grocery consumer?

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ACTIVITY

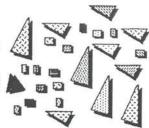
Be There Or Be Square!

STUDENT NAME

SKILL

Identifying and defining geometric figures in the news

Geometry is so much a part of our lives; you can find evidence of this in your newspaper. You can find geometric shapes referred to in cliches (*Don't be square!*, *Love triangle*, *etc.*), in the photos, graphics and illustrations in the newspaper. Geometric shapes are all around us!



Instructions...

- •Use your newspaper to search for a variety of geometric shapes listed below. (Look in ads, photos, illustrationseven consider the shapes of news stories or features like comic strips!)
- •Clip out each shape you find and paste it to this activity sheet. Use the back of this activity page, if you need more room. Write a definition for each shape.

Find and define...

Square

Circle

Rectangle

Triangle

Octagon

Hexagon

Trapezoid

AC.	TIVI	TY	#

14

ACTIVITY SKILL Coupon Clipper Multiplying/Adding

STUDENT NAME

Coupons from the newspaper's advertising can mean big savings to a conscientious consumer. Often, the savings from coupons in the newspaper far surpass the subscription cost of the newspaper itself. The reader (consumer) of the newspaper can benefit from using the newspaper for information and for saving money.



Instructions...

- •Select any five coupons from the paper. Paste or attach these coupons on the back of this activity sheet.
- •In the space below, list the item, the coupon amount, the double coupon amount and the triple coupon amount (some grocery stores promote these special offers as an additional benefit) for each item. Calculate the total savings for each column.

Coupon Item	<u>Value</u>	Double Amount	Triple Amount
		0	
		-	
			-
Total Savings			

List as many reasons as you can in this space why some people don't use coupons. Use complete sentences.

15

ACTIVITY

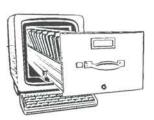
Graphic Search

STUDENT NAME

SKILL

Identifying/analyzing types of graphs

The use of graphs in newspapers has increased over the past decade. Many types of graphs are used to illustrate important facts. Some graphs in the newspaper stand alone, with a brief explanation or caption; others may accompany a story or feature. Whatever the topic, graphs usually provide a capsule analysis of a great amount of data.



- •Using several different newspapers, locate one example each of the different types of graphs. Try to locate a line graph, vertical bar graph, horizontal bar graph, circle graph and picture graph.
- •Paste each type of graph you find below and on back of this activity page (if you need more room). For each graph, explain in your own words what information the graph provides.

16

ACTIVITY

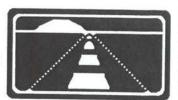
Car Pool

SKILL

Estimating/averaging

STUDENT NAME

Newspapers are excellent resources for any type of shopping, including major purchases such as cars. The types of advertising approaches used in car advertising may be as varied as car models. We often desire one type of car, but discover we can only afford another type.



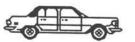
Instructions...

- •Select advertising (retail or classified) for five cars you think you would like to own someday. Clip out each ad you find.
- •Select advertising (retail or classified) for five cars you think you might be able to afford as your first car, assuming you are paying for it with your own money.
- •Using each set of advertisements, estimate the cost of each vehicle (or quote the exact price, if given) and calculate the average cost of the cars in each category. Record your work in the space below.

Estimated Price of 5 Cars I'd Like To Own



Estimated Price of 5 Cars I Could Own



Average Cost Of Cars In This Category

Average Cost Of Cars In This Category

17

ACTIVITY

The Lone Ranger

SKILL

Assessing range/constructing a chart

STUDENT NAME

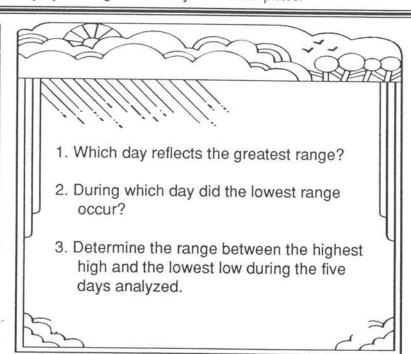
Building a chart to show information can help a person study information from a new perspective. Weather reports often contain charts that help readers see the wide range of temperatures over a month's time, for example. However, a chart might be used in the business, general news and sports reporting in a newspaper.



Instructions...

- •Range is the difference between the largest and smallest of a set of numbers. Determine the range of temperatures in your area for a total of five days by completing the chart below. Base the figures on information provided in your newspaper.
- •Complete the questions at the end of the activity, by referring to the chart you have completed.

	High	Low	Range
Day 1		-	
Day 2			
Day 3			
Day 4	·		
Day 5			



In the space below or on the back of this page, create another range chart using figures from another section of your newspaper. Present your chart to your class, with questions based on the information in your chart.

ACTIVITY # ACTIVITY SKILL	18 Family Circle Constructing a circle graph	STUDENT NAME
provide us more	ovide many services to readers; one of which is informat specifically, television. The television guide in the newspare information than just showtimes for favorite shows, if we uide from a different perspective.	aper may
Instructions •Analyze the pro CBS).	gramming for one day (or a 12 hour period) for one of the	e major variety networks (ABC, NBC,
•Use the television for the day.	on guide to determine how many hours of news, drama,	comedy, documentary, etc. are scheduled
•Use the area be the different typ	elow to keep track of the information you gather. Create a ses of programming you discover.	a circle graph to reflect the percentages of
Type of Program		% Of Day Devoted To This Type
TOTAL NUMBER	R OF HOURS ANALYZED	

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19

ACTIVITY

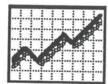
Graphic Comedy

SKILL

Collecting data/graphing

STUDENT NAME_

With continuing development of computer technology and readers' needs for easy access to information, newspapers frequently reveal information in the form of graphs. Most information collected on an opinion can be shown through use of a graph.



- •Your task in this activity is to construct a circle graph in the space below showing information you have collected.
- •To collect your information, or data, survey 15 of your friends to find out their favorite comic strip in your newspaper comic strips. Your friends must respond with only one strip name. Use the chart below to track your data. Express your data in percentage form.

		Friend	Comic Strip
/	\		-
	1		
	1		
Of Graph:	9f		
			× (-

AC'	ΓIV	ITV	#
~~			TT

20

ACTIVITY

Weather Picture

SKILL

Constructing a line graph

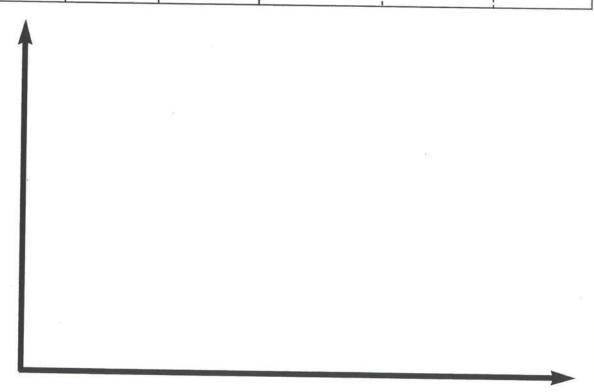
STUDENT NAME

Weather information collected over a period of several days may be analyzed and studied easily if a graph is developed to show the information collected. This information may be used to detect certain trends or changes in the weather. Most newspapers carry extensive weather information about their own area.



- •Use the chart below to keep track of the daily high and low temperatures in your town or city for 10 days.
- •Use the weather information you have collected from your newspaper to create a broken line graph below.

Date	High	Low	Date	High	Low
					t t
			91	1	1
					<u> </u>
					!



21

Job Category

ACTIVITY

Charting Careers

SKILL

Constructing a bar graph

STUDENT NAME

The number of jobs listed in the classified advertising section of the newspaper will vary greatly in number from day to day. However, the number of jobs categorized by type often reflects job trends and needs for metropolitan areas.



Instructions...

- •Use the classified advertising section of your newspaper to identify 5 general job areas (for example: clerical, construction, education, sales, computers, etc.)
- •When you have decided on 5 job areas you would like to analyze, write the names of the areas in the space below. Count the number of positions advertised in each of the areas you have selected.
- •Create a bar graph to show the number of jobs advertised in your newspaper for the categories you selected. (If you want to create an eye-catching bar graph, create your graph on a plain sheet of paper and use columns from the classified advertising section as your "bars".) You may also create your graph below.

Positions

		P =		
1				
1				
1				
1				
			14 10	
	5.			
ı				

A	C	TI	٧	ITY	#	

22

ACTIVITY

Graphic Opinions

SKILL

Calculating percentages/developing a graph

STUDENT NAME

Most graphs and charts found in a newspaper are likely based on fact rather than opinion, unless the purpose of the graph is to relate information gathered by survey of opinions. Some of the content of a newspaper might provide interesting material for creation of a



Instructions...

graph.

- •Refer to the comic strip section of your newspaper to get information to help you complete the following information...
- •Calculate the percentage of characters that fit into one or several of these categories (in your opinion): elderly, adults, teenagers, children, office workers, members of a minority race. (Your teacher may want to add or eliminate some of these categories.)
- •Develop a graph in the space below to reflect the percentages of characters in each category.
- •Make three thoughtful statements based on the information in your graph.

My conclusions or thoughtful statements	
1	
2	
3	
- COVARIANT - COVA	

23

ACTIVITY SKILL Baby, It's Cold Outside!

Converting Fahrenheit to Celsius

STUDENT NAME

A person does not have to travel far into a neighboring country before he or she realizes that all is not measured on the same scale. Crossing the Canadian border can shed light on the different ways temperature is measured. Whether going into Canada or traveling from Canada to the United States, it might be a good idea to be ready to make temperature conversions.



•	1				
1	ne	141	nt	IA	ns
	113	uu	UL	ı	15

- •Using the weather page of your newspaper, select five cities and convert their high and low temperatures (either forecast or actuals) from Fahrenheit to Celsius.
- •Use the conversion formula...Celsius =(Fahrenheit 32°) X 5

Cities	High Temp (F) (C)	Low Temp (F) (C)

Show your conversions here...

ACTIVITY	#	- 8
	n	

24

ACTIVITY Bullish On Fractions

STUDENT NAME_

SKILL

Computing with fractions/Expressing fractions in decimal form

The columns in the stock exchange reports contain information important to business and investors. The stock market reports explain the activity of stocks on the previous day, including price per share of stock at the day's opening and closing of the stock exchange.



1			
ınsı	ruci	ions	

- •Use your newspaper to locate the stock exchange column.
- •Select stocks of ten companies that interest you and record the information for each stock in the spaces provided below. When you have completed the information for each stock, give your list to a partner and compute the opening price of each stock by adding the **Net Change** to the **Closing Price**. Express the opening price in dollars.

Stock Example:	Close	Change	Opening Price	Opening Price (Expressed in dollars)
Josten	323/4	-1/2	33¼(or)	\$33. 25
	i e			
	2			
<u> </u>	`		·	
		8 		
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25

ACTIVITY

Some Like It Hot

SKILL

Calculating mean, median, mode

STUDENT NAME

The weather page of the newspaper provides much data that has been collected and can be further analyzed. By comparing collected data, a newspaper reader can easily figure the mean, median and mode temperatures for any particular area.

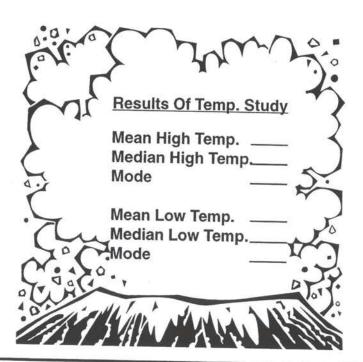


Instructions...

- •Use your newspaper's weather report to identify a regional area of forecast (or actual) highs and lows for several different cities.
- •Arrange the 10 to 15 high and low temperatures from high to low. Calculate the mean (average), median (middle score) and mode (most frequent score) for each list.

City And High Temperature

City And Low Temperature



26

ACTIVITY

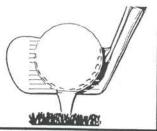
Circle Roundup

SKILL

Calculating circumference & area of a circle

STUDENT NAME

A variety of geometric shapes can be seen in the newspaper. Geometric shapes may be found in photos and illustrations in the newspaper. Some parts of the newspaper may be contained within a geometric shape. For example, the weather report may be contained in a square; a cartoon, such as *Family Circus*, may be enclosed in a circle.



Instructions...

- •Use your newspaper to locate at least 2 circles. Clip the circles and paste them below or on the back of this activity page.
- •Write the formulas for finding the circumference and the area of a circle below.
- •For each circle you found, calculate the <u>circumference</u> and the <u>area</u>. Show your work.

Formula for finding circumference...
C =

Formula for finding area of a circle...
A =

Circle # 1...

Circle #2

27

ACTIVITY

Save 20-40%!

SKILL

Calculating savings

STUDENT NAME

Newspaper advertisements serve the consumer often by providing information about various products and services that are on sale at a percentage savings. Critical reading skills are important when reading these ads, however. Some stores announce 25% savings, for example, but do not quote the original prices. This information is important to the consumer who would like to know how much money might be saved.



- •Use the newspaper to find three items of clothing that you would like to buy for yourself or as a gift for someone you know. These items must be accompanied by a price.
- •Compute what savings would be made on these items at each of the rates listed below.



<u>ltem</u>	Regular Price	Amount Saved At 20% Off	Amount Saved at 40% Off
1.			
2.			
3.			
Totals If All Three Items Were Purchase	ed		

ACTIVITY #
ACTIVITY

28

Mall Clerk

SKILL

Calculating subtotals/adding tax

STUDENT NAME

Though not everyone will hold a position as a sales clerk at a department or retail store, the math skills required for such a position are very basic and important to have, whether you are the seller or the buyer. Large retail ads in the newspaper often feature numerous items that people are interested in purchasing.



Instructions...

- •Select an advertisement from your newspaper that offers a variety (at least 4) items available for purchase.
- •Pretend that you are a sales clerk who must fill in a sales slip and calculate a customer's total purchase of four items purchased from this store. Use the sample sales slip below to complete this activity with the name of the store (use the name of the store from the advertisement). Itemize each purchase, calculate the subtotal, figure the total sales tax (at 4%, or your local sales tax rate) and the total purchase.

Sales Form Store Name:

Date

19

Address

SOLD BY	CASH	C.O.D.	CHARGE ON ACCT.	MDSE. RETD.	PAID	OUT
Quantity		De	escription		Price	Amount
i.e.			P			
	-17				SUBTOTAL	
					TAX	

Rec'd by





AC	TI	۷	IT	Y	#
----	----	---	----	---	---

29

ACTIVITY

On The Average

SKILL

Averaging a series of numbers

STUDENT NAME

Prices of similar items and services advertised in the newspaper may vary. It is a good consumer practice to discover the *average* cost of an item or service before actually making a purchase. The newspaper can provide information to help you calculate average prices.



- •Use the classified advertising section of your newspaper to find the average cost of each of the items in the spaces below.
- •Try to find at least 3-5 prices for each of the different items. Use these prices to find the average cost for each item. Show your work in the space allowed.

Rent For An Apartment In The City	A 3 year-old Car	A Split-Level House
A Laser Printer for	A Boy's Bicycle	A Used Motorcycle
Computers	a managara j amanan	A osca motorcycle
a		
	2	
		¥

30

ACTIVITY

It's A Long Shot

SKILL

Calculating averages/predicting outcome

STUDENT NAME



Many newspaper readers who study the sports pages may feel that a thorough understanding of the statistics for teams can make them experts in predicting the outcome of future games. Do you think there is any evidence to support this idea?

Instructions...

- •Find the box scores of four recent baseball games in the sports section of your newspaper. Clip them out for reference. Complete the information below and calculate the team batting averages for that game by dividing the total Hits (H) by the total At Bats (AB).
- •Paste or attach your box scores to the back of this activity page when you have completed the activity.

		Game		
	AB	Н	R	Team Avg.
Team A				,
Team B				

After studying these statistics, does the team with the most at bats always win? Explain.

		Game		
	AB	Н	R	Team Avg.
Team A				7
Team B				

2. Does the team with the most hits always win? Explain why or why not.

- 3. Does the team with the best batting average always win? Explain your answer.
- 4. Does the team with the most runs always win?

31

ACTIVITY

Batter Up!

SKILL

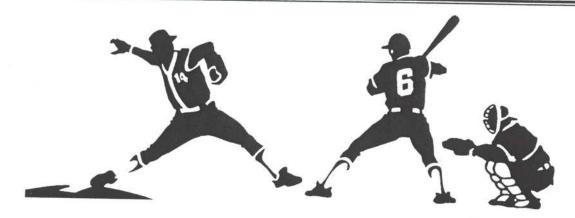
Interpreting information in charts

STUDENT NAME_

Sometimes we may not realize how important math skills are in our everyday lives. In almost every activity we do, math might play a role. In this activity, mathematics can be evidenced by reading and interpreting the baseball box scores.



- •Clip a baseball box score from your newspaper for a game played between your favorite team and an opponent. Next to each batter's name, you should find the At Bats (AB), Runs Scored (R), Hits (H) and Runs Batted In (BI or RBI).
- •Paste the box score in the space provided at the right of this page and answer the following questions, based on information provided in the the box score.



Which player(s) had the most at bats (AB) in this game?	
2. Which players scored runs for your favorite team?	17
3. How many hits (H) did the 1st baseman for the opposing team have? Player Name Number of Hits 4. Who batted in runs for the winning team? List in this space.	Paste Box Score Here
5. Who had the fewest at bats (AB) in this game?	

32

ACTIVITY

Live It Up

SKILL

Ordering numbers/ finding an average

STUDENT NAME_

Consumer choices are made every day in the effort to live well, yet within the budget that the family income allows. The "bare essentials" for living include several budget categories, but a major expense for most families is the place to live, or shelter.



Instructions...

- •Use the classified advertisements in your newspaper to find five different monthly rental costs for a two-bedroom apartment.
- •Clip out the advertisements and paste or tape them below in order, from least to most expensive.
- •Find the average rent from the five examples you selected.

Apartments For Rent

Average Rent Per Month

Most Expensive

Show Your Work Here.

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36

33

ACTIVITY SKILL

Inflation Elation

Adding large numbers

STUDENT NAME

We all may like to dream of having as much money as we want to purchase whatever we want. But have you ever figured out what you could buy with one million dollars, using only the newspaper as your purchasing catalogue?



- •Using the classified advertising section of your newspaper as a shopping "catalogue", pretend that you have one million dollars to spend on whatever you desire.
- •Complete the chart below, "purchase" items, keep track of the total spent per item and the running total, until you have spent one million dollars (\$1,000,000.00).
- •Your only restrictions are that you may not "purchase" more than 2 houses, 3 cars, or 5 each of any other item.

Item "Purchased"	Cost For This Item	Balance In Your "Checkbook" (Remaining) \$1,000,000.00
1.	· · · · · · · · · · · · · · · · · · ·	
2.		-
3.		
4.		A
5.		
6.		
7.		
8.	Yes and the second seco	
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		
17.		
18.		
19.		
20.		37
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ACTI	VITY	#
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34

ACTIVITY SKILL

It Can Really Add Up

Making choices/calculating final costs

STUDENT NAME

The newspaper is an excellent consumer guide for those readers who are "shopping" for best buys on goods and services. The retail advertising and classified advertising in the newspaper often provides the newspaper "shopper" good information on bargains. Additional newspaper "inserts" from retail stores may also provide great shopping information.



Instructions...

- •Pretend that you have been given a gift of \$125. You decide that you want to buy at least 5 presents for yourself. Use the newspaper to make your selections, but try to have at least \$25 left for your savings account.
- •Use the blank chart below to indicate for each item you select, the store where you could purchase the item, a description, the cost of each item and the sales tax on each item. You should use a sales tax chart for your area or use a calculator to figure the sales tax for your area.
- Figure the total cost of your selections. Were you able to save \$25 for your savings account?

<u>tem</u>	Store	Item Description	Cost	Tax	Item Total
					Hein Total
	-	-			
	=				
				·	
		_			
_	-	· ·			
		2			
		,	TOTAL AMOUNT	SDENT	
			TOTAL AMOUNTS	DPENI	

Use this space for your work...

35

ACTIVITY SKILL Job Market Ups And Downs

Constructing a bar graph/analyzing information

STUDENT NAME

Information found in the newspaper may often be made more clear for the reader through the use of graphs and charts. Some information in the newspaper can be used to construct a graph for further analysis or study.



- •Use the classified advertising section of your newspaper to identify five (5) different occupational areas.(E.g., sales, clerical, management, computer programming, etc.)
- •Count the number of advertised positions within each occupational area.
- •Create a bar graph (with a title) in the space below to represent the number of positions advertised within each occupational area. Can you make two statements about what a reader might conclude from studying your graph?

36

ACTIVITY

The Last Resort

SKILL

Comparing/calculating costs per mile

STUDENT NAME

Vacation dreams often begin with feature stories in the newspaper about exotic vacation resorts and spas. For the cost-conscious consumer, it is interesting to discover how air travel prices compare for different vacation areas.



Instructions...

- •Use your newspaper to select an airline travel advertisement containing airfares for several different vacation areas. Attach the advertisement you selected to this activity page.
- Select from the ad airfare prices for three places, one for each of the distances given below.
- •Determine the cost of air travel per mile for each of your vacation choices, as well as the average cost per mile for air travel to the areas you selected.

Vacation Area #1 (500-1,000 miles away)

Area:

Cost Per Mile For Air Travel:

Vacation Area #2 (1,000-2,000 miles away)

Area:

Cost Per Mile For Air Travel:

Vacation Area #3 (Over 2,000 miles away)

Area:

Cost Per Mile For Air Travel:

Average Cost Per Mile For Air Travel For The Three Areas Selected



37

ACTIVITY SKILL

Area Arithmetic Computing area

One of the services that newspapers may provide to their readers is the depiction of home designs. Home building plans such as these often give readers ideas for their own building plans, with some modifications for space needs and budgetary

STUDENT NAME



Instructions...

limits.

- •Use the newspaper to find a floor plan for a new home.
- •Using the measurements given in the floor plan, compute the square footage room by room. Complete the chart below.
- •Locate an advertisement that gives pricing information on carpeting. Select one carpet price and compute the total cost of this carpet to finish the floors of the home in the floor plan. You will likely have to translate the square footage to square yards to arrive at a total price.

Square footage, room by room, of a home in newspaper	
Room Square ft.	
Paste Or	Attach Carp
Total:	

Paste Or Attach Carpeting Advertisement Here.

Total Cost For Carpeting For The Home Selected In The Newspaper...

38

ACTIVITY

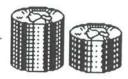
Taxes Take Toll

SKILL

Multiplying percentages

STUDENT NAME_

One serious mistake a consumer can make is to ignore the fact that most newspaper advertisements for products and services contain the <u>base</u> price for what is being advertised. The knowledgeable consumer can avoid being surprised at the total cost when sales tax is added. The newspaper advertisement contains only what the advertiser requests.



- •Many community services are provided as a result of sales taxes. Sales taxes vary in different areas for a state, a city or a county. Find out the current sales tax rate in your local area.
- •Use the different sales tax rates below and your own local sales tax rate to calculate the sales tax for two different items you select from the newspaper in each category.

Items Co	sting Less than \$5					Tatal Dai
Item	Advertised Price	Tax at 5%	At 6%	At 6.5%	Local Rate	Total Price Of Item In Your Area
					8	-
Items Co	sting \$50-\$150					Total Price
Item	Advertised Price	Tax at 5%	At 6%	At 6.5%	Local Rate	Of Item In Your Area
Items Co	sting Over \$5,000					Total Price
Item	Advertised Price	Tax at 5%	At 6%	At 6.5%	Local Rate	Of Item In Your Area



39

ACTIVITY

On Your Own

SKILL

Estimating/calculating savings

STUDENT NAME

The newspaper can help us plan for the future with information provided us on every page. Many newspaper readers fail to realize how important classified advertising can be when trying to save money. Though used, many items in the classifieds can meet your material needs at a reduced cost to you, the consumer.



Instructions...

- •Pretend that you are ready to face the world on your own. Whether you are establishing an apartment during your college years or plan to enter the work force immediately after high school, planning for basic furnishing needs within a budget can be challenging.
- •In the space below, estimate how much it might cost you to get the basic furnishings for an apartment (including appliances) if you purchased every item new.
- •In the space below, calculate how much you might actually spend, based on information for items advertised in the classified section of the newspaper. Clip and paste each ad you found on the back of this activity page. How much money were you able to save, compared to your original estimation?



Itemized List Of Furnishings Needed & Actual Costs (based on classified advertising information)

Item	Cost (if bought new)	Cost (if from classifieds)
Total		

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Amount "Saved" By Shopping The "Classifieds"

ACTIVITY #	40
ACTIVITY	Prime Rate
SKILL	Using ratios

STUDENT NAME____

The grocery consumer makes many decisions based on desire, personal taste and cost for items in the grocery store. Some consumers, for example, may purchase high-quality items for additional cost, rather than getting more for less. The meat department may be one area of the grocery store where decisions like these are made every day.



Instructions...

- •Using an imaginary \$5.00, calculate the amount of meat/poultry/fish you could buy. Use prices from the grocery advertisements in your newspaper.
- •To arrive at how much of each type of meat/poultry/fish you could buy with \$5.00, use ratios (see formula below). Complete the chart below.

Formula \$\frac{\\$ \Per \text{Pound}}{\\$ 5.00} \frac{\}{x \text{Pounds}}

Advertised Item & Price Per Pound	Ratio	Pounds Purchased (To Nearest Hundredth)

ACTIVITY # ACTIVITY SKILL	Thanks, I'll Walk STUDENT NAME Calculating financing costs
when the purch etc., may seem	n have a lot of fun dreaming about material goods they desire. Just hase price on a major purchase, such as a car, boat, motorcycle, a almost within reach, costs of financing may jolt us out of our dream t us back on our own two feet.
Instructions •Locate 3 adver available throu	tisements in your newspaper for cars. <u>These advertisements must include the financing terms</u>
amount of the p	nanced cost of a car in each of the 3 ads. (Financed cost will be the number of payments X the payment + down payment = Financed price) If the original cost is given, also subtract to find rest paid (or the amount beyond the original list price in the ad).
Calculation	ons based on first ad
Calculatio	ons based on second ad
Calculatio	ons based on third ad

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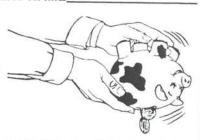
ACTIVITY Interested?

STUDENT NAME

SKILL

Comparing investment results/calculating percentages

When a person invests money, he or she usually wants to get the best return on the money invested. The newspaper provides a great deal of information through advertising, special reports and regular features which can give the ordinary consumer interest rates for different investments at area financial institutions.



- •Locate newspaper advertisements from three financial institutions in your area. The ads should contain yield rates for savings accounts and/or certificates of deposit. These rates will be expressed in percentage form.
- •Complete the information called for in the chart below.
- •Calculate and record at the bottom of the chart, the interest earned on each type of investment over a 12 month period.

	Institution #1	Institution #2	Institution #3
Name Of Financial Institution			
Savings Account/ Cert. of Dep. (CD)			
% Interest			
Time Period			
Compounded			
Interest Earned Over 12 Month Period			



43

ACTIVITY

Taking Stock

SKILL

Converting closing prices

STUDENT NAME

Business reports in the newspaper contain general information about new and established companies locally, regionally and worldwide. Specific information about corporate growth, losses and gains can be found in stock exchange listings in the newspaper. The stock market listings report closing prices of various stocks by using a mixed number. These mixed numbers can be interpreted as prices per share of each stock.



Instructions...

- •Using the stock market listings in your newspaper, list below 10 mixed numbers found in the closing prices below.
- Interpret each mixed number in dollars and cents.

Closing Prices (In dollars & cents)





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44

ACTIVITY SKILL

Moneychangers

Multiplication/division

STUDENT NAME_

Many newspapers carry information useful to the business and recreational traveler. Information about the exchange rate of foreign currencies is provided by many newspapers. This information is useful only if the traveler knows how to calculate the amount of money expected in exchange for a foreign currency.



- •Assume that you are going to travel to several foreign countries. In each country, you estimate that you will want to spend \$150. Use the foreign currency rates in your newspaper to figure out how much of each country's currency you can expect to receive at the published currency rate. Use the chart below to reflect your calculations.
- •Assume that you have returned home from your travels, but with 50 of each foreign currency to exchange for U.S. dollars. Complete the chart below to indicate how much you have left to spend here at home.

Country	Name of Currency	Approx. \$150		(6)
	9 ·			
			= =	₩
		8		
		-		+



Ho	me Agai	in!
Country & Amount Left	=	American Dollars
		0
		8

ACT	IVITY	#
-----	-------	---

45

ACTIVITY

Total Coverage

SKILL

Finding percentage/cross products

STUDENT NAME

Basic skills in math can equip readers to prove a point or to support an opinion with statistics. For example, some readers may request that their local paper give more coverage to national, rather than local news. However, to support this point of view, it might be wise for the readers making such a request to know what percentage of the paper is actually devoted to national news.



Instructions...

- •Analyze the contents of your newspaper by category. Count the number of stories in the newspaper that would be categorized as either local, national or international.
- •To determine percentage of the newspaper stories that are local, national or international, find the total number of stories considered (You may want to limit your study to certain newspaper sections.) Figure the percentage of each type of story in the newspaper by calculating cross products.
- •Use the space below to express the results of your statistical analysis of your newspaper. Make at least three summary statements about what these results reflect about your newspaper.

Summary Statements

ACT	٦IV	'IT	Υ	#
1.				

46

ACTIVITY

As Good As New?

SKILL

Calculating depreciation/subtracting

STUDENT NAME_

The classified ads in a newspaper can provide a reader a good idea of the present value or cost of used items. A major concern of some car consumers is the depreciation of a car model presently owned. Classified advertising can provide some keys to unlock this answer.



Instructions...

- •Use the classified advertising section of your newspaper to locate the used car category.
- •Select <u>at least three advertisements for similar car models</u>. Each ad should be for <u>a different year's model</u> (three years in succession). It is important that the ads you select contain the advertiser's price.
- •Calculate the yearly depreciation of the car model selected, by subtracting the price difference from year to year.

Car Depreciation

Example

Car	Model/Year	Sales Price	Depreciation
Jeep	'89 Cherokee	14,000	-
	100 06		

'88 Cherokee 12,000 2,000 '87 Cherokee 11,000 1,000

Car 1	Model/Year	Sales Price	Depreciation

Car 2	Model/Year	Sales Price	Depreciation

		· ·	

Car 3	Model/Year	Sales Price	Depreciation



ACTIVITY

Salary Search

Salary Searc

47

STUDENT NAME_

SKILL Locating/comparing statistical information

Classified advertising is often referred to as "want ads", implying that everything you might want, from household items, to cars, to jobs, may be found in the classified advertising section. Classified advertising gives a reader a good opportunity to find out what types of jobs are available and what type of salary might be expected for different jobs.



- •Find the classified advertising section in your newspaper. Locate the help wanted or jobs available category.
- •Try to find several jobs advertised which include a salary figure. (Try to find two examples of similar jobs for each category in the chart below.)
- •Complete the information called for in the chart below. On the back of this activity, write 4-5 conclusions you can draw, based on the information you have collected.

	Job Title	Salary	
Annual			Highest
			Lowest
		1	Difference
Monthly			Highest
		, 31	Lowest
			Difference
Weekly			Highest
		· · · · · · · · · · · · · · · · · · ·	Lowest
			Difference
Hourly			Highest
			Lowest
	* 9		Difference

48

ACTIVITY

Play Ball!

SKILL

Interpreting information/calculating ERA

STUDENT NAME

Baseball box scores provide important information for the avid sports fan. These box scores offer some of the most popular statistical information in the newspaper. Interpreting this information for the first time can be a challenge to the novice box score reader.



Instructions...

- ·Locate the baseball box scores in your newspaper's sports section.
- •Clip the box scores from one game and paste in the space below.
- Complete the information requested in the activity.



Paste Box Score Here

- 1. Which team had the most official 'at bats'?
- What was the average number of 'at bats' per starting nine for each team? ______
- 3. Using the box score you pasted above, select a pitcher of your choice and determine his earned run average (ERA) for the game using the following formula.

ERA Formula...

ERA = ER X 9

Pitcher Name

ERA for game _____

49

ACTIVITY

But Can We Afford It?

SKILL

Calculating expenses within means

The business section and various business reports in the newspaper may provide us with the most current information regarding the cost of home loans. Before shopping for a home loan, some simple calculation can provide a first-time home buyer an idea of the price range for a home the buyer might likely be able to afford





Instructions...

- •Use the classified advertising section of your newspaper to identify and select three different jobs you might like to have. The ads you select must contain the approximate salary (hourly, weekly, monthly or yearly).
- •A very general rule of thumb for home buyers is that the monthly payment for a house should not exceed 25% of the gross monthly income. Using the salary figures for the three different jobs you selected, find three houses listed also in the classified advertising, that might be appropriate investments for you, considering each different job. Paste the appropriate job advertisement below the house advertisement.
- •To figure the monthly payment for a home-assuming you are going to take 30 years to pay for the house-take the selling price of a house, deduct \$20,000 (your down payment), calculate the financed cost of the remaining debt at 9 1/4 % (See Table Below), and figure the monthly payment for each of the houses you find. Generally, there are additional costs to consider, but this approach will help you find the appropriate price range for a home within the salary considerations.

INTEREST		LEI	NGTH OF TERM			
RATE	5 YRS.	10 YRS.	15 YRS.	20 YRS.	25 YRS.	30 YRS.
9.25%	\$20.88	\$12.80	\$10.29	\$9.16	\$8.56	
10.5%	\$21.49	\$13.49	\$11.05	\$9.98	\$9.44	\$8,23 \$9,15

To calculate your monthly payment, multiply the appropriate factor by the number of thousands of dollars to be financed. Example: To finance \$20,000 at 10.5% for 15 years, multiply $$11.05 \times 20 \ ($20,000 + $1,000 = 20)$ or \$221.

Use the area below to show your work. Remember, the average monthly payment for your home should not exceed 25% of your gross monthly income.

House #1

House #2

House #3

Super challenge: Using the house of your choice, can you calculate how much of the financing cost could be saved by paying for the house on a 15 or 20 year term?

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	AC	T	IV	IT	Y	#
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ACTIVITY

News Evaluation

STUDENT NAME_

SKILL

Assessing the newspaper as a consumer resource

The newspaper is useful to many consumers. After completing several of the math exercises in which you have relied on the newspaper as a consumer resource, you are more qualified to evaluate the usefulness of the newspaper as a consumer tool.



- •This activity should be completed only after you have completed several newspaper activities.
- •While leafing through the newspaper, think about the newspaper activities you have completed. Briefly explain 10 ways in which the newspaper can help an individual to be a better consumer.
- •On the back of this page, develop a list of 4-5 items, features or general information that are not presently contained in your newspaper that you think would be beneficial to the consumer community. Discuss your ideas with the rest of your class.

	To ways The Newspaper Can Benefit A Consumer
_	
_	
_	

ACTIVITIES

51-58

ACTIVITY

Supplemental Activities

Activity #51

Squaring Off

Construct a magic number square by using your newspaper to find, clip and paste numbers in a magic square format. Make two magic squares; the columns of the first magic square should

8

total 24 when added together. The second magic square may total whatever number you determine.

Activity #52

Measuring Up

Use your ruler to measure the largest and smallest pictures on the front page of the newspaper. Measure both width and length. Find the total area of each picture. Express each of your answers in inches and



Activity #53

Sold In Sets, Only

Analyze several pages of display advertising in the newspaper. Identify items that are sold in sets of 2, 3, 4 etc. Create a collage of items sold in sets.



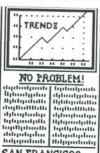
Discuss why these items are sold in sets.

Activity #54

centimeters

Analyze the headlines on the front pages of your newspaper's various sections. Calculate the average words used per headline in the newspaper.

Few Words



SAN FRANCISCO

alphophologi trappologi trappologi depthylocotts delpologi trappologi delpologi delpol

GENEVA

SHOCKED

HOUSTON diplordiced differenced differenced distribution differenced differenced distribution

Activity #55

Solve This One!

Create original math problems using information from the newspaper. Use ads to determine the cost of multiple items, change received, money saved, etc. Challenge your classmates to solve your problems.

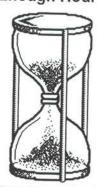




Activity #56

Not Enough Hours

Many newspapers report the times for sunrise and sunset in the weather section or in a special, regular feature of the newspaper. Using this information, calculate the hours of daylight for a month. Make a graph to show the daily changes.



Activity #57

Going Out!

Calculate the approximate cost of a movie and

dinner for one evening for a group of four of your friends. Use only the movie and entertainment sections and advertising information from your



newspaper to make your calculations.

Activity #58

Math Every Day

The newspaper can provide us many examples of mathematics in our everyday world. Create a collages of stories.

advertising, cartoons, charts, reports, etc. from the newspaper which exemplify that math is a part of our everyday life.



ACTIVITIES

59-66

ACTIVITY

Supplemental Activities

Activity #59

Wall Street

Invest an imaginary \$1,000 in stocks listed in the stock exchange reports in your newspaper. Plot daily gains FORTUNE and losses on a graph for each company's stock. Do this activity once per week for a total of 10 weeks. Determine how much of the \$1,000 gained or lost in yield for the

investor at the end of the period.

Activity #60

10 Cubits Wide

Find an ad in the newspaper that contains measurements and convert each measurement to another form. Convert inches to feet, feet to yards, fractions to decimals, meters to centimeters, fractions to percentages, etc.



Activity #61

Nearly A Gallon

Find examples of quantity measurements used in advertising in the newspaper. Select an item. e.g. detergent, and identify the different sizes available, judging from the advertising.



Activity #62

The Fine Print

Analyze advertising for various products in the newspaper. Read the fine print of any ads and discuss why fine print or small type size may be largely important to the consumer.

Activity #63

Draw Me A Picture

Find news stories or features in your newspaper that you think might be improved with the addition of a graph or chart. Create a suitable graph or chart to accompany the newspaper



construction paper to display the selected news story and your addition to it.

Activity #64

Lines & Hoops

Locate the National Basketball Association standings in your newspaper. Choose one division and develop a line graph showing wins and losses for each team. Mount your graph on a sheet of construction paper for display. Create a title for your graph.



Activity #65

story. Use a sheet of

Just For Kids

Estimate the number of daytime hours of television programming devoted to children (Age 10 and under). Refer to television listings in the newspaper to figure the actual percentage of children's programming on daytime television.



Activity #66

Common Parallels

Locate a map in your newspaper that shows streets or highways. (Look in store ads or graphics accompanying news stories.) Find streets that are parallel, streets that form an intersection, streets that form a right angle and/or streets that form less than a 90° angle. ACTIVITIES

67-74

ACTIVITY

Supplemental Activities

Activity #67

Math Careers

Use the classified advertising section of the newspaper and the financial or business pages to identify careers that require basic math and careers that would require an extensive background in mathematics. Develop a list of



these careers in each category. For each career, identify the math skills that are needed.

Activity #68

Movie Madness

Marvin and Maude Moviefan have several hours (between 5 p.m. and midnight, to be exact) to spend doing their favorite thing-movie viewing. Use the movie directory in your newspaper to create an itinerary for Marvin and Maude that will allow them



to attend the most movies at the least cost.

Activity #69

Check This Out

Identify five items from advertising (both classified and retail) in the newspaper that you would like to purchase. Create your own checkbook and balance pages; write checks for each item; record your balance after writing each check.



Activity #70

The Obituaries

Using several different day's newspapers, find for each day, the average age at death of people in your area. Record your information on a line graph. How does the overall average compare with national statistics?



Activity #71

Math Pin-ups

Make posters from newspaper clippings. Create a poster for at least one of these categories...Objects That Are Solid, Examples Of Cylinders, Spherical Objects, Cone-Shaped Objects, Objects That Are Circular, Examples Of Squares, Examples Of Rectangles.



Activity #72

That's Too Much

Identify several large numbers that are quoted in the newspaper. These numbers are likely to be found in news stories (especially stories about the federal budget, federal spending or the federal budget deficit). Express these large numbers in different forms, e.g., 2,500,000/2.5 million/21/2 million.

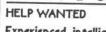


Activity #73

Classified Costs

Use information from your newspaper's classified section to compute the approximate

cost of a classified ad. Select an advertisement from the classifieds or



Experienced, intelligent person, energetic, good language skills, computer experience helpful but not necessory. Apply in person

create your own for the purpose of this activity.

Activity #74

That's Probable

Use the newspaper to find examples of statistics that could be used to make predictions. Identify several businesses that specialize in making predictions based on statistics. Are all of the businesses identified considered legal?

