

# MATHEMATICS • PLAYING with PLACE VALUE



DIRECTIONS: Place numbers you find in the newspaper on the grid below:

billions	hundred millions	ten millions	millions	hundred thousands	ten thousands	thousand	hundreds	tens	ones

①   ②   ③   ④   ⑤   ⑥   ⑦   ⑧   ⑨   ⑩

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FOLLOW-UP: Using a colored pencil, crayon, or markers, order your numbers from largest to smallest. Mark the largest number “1,” second largest “2” and so on. Where in the newspaper did you find your largest numbers? What do the numbers measure?



**DIRECTIONS:** Go shopping in the newspaper. Use your newspaper to find the information needed.

1. You've been saving your money from odd jobs and now you have enough to take your mom or grandmother out to eat as a special surprise. You know she likes seafood. Where can you go to eat?

Name of restaurant \_\_\_\_\_  
 Address \_\_\_\_\_  
 Cost of meal for two \_\_\_\_\_

If you cannot locate a restaurant ad in the newspaper, look for another way to enjoy an evening. Choose a concert, play or other event that both of you might enjoy. Write the event, its location and cost for two.

Concert, play or other	Location	Cost
_____	_____	_____
_____	_____	_____

2. You want to have some of your friends come to a party. What food would your friends like? Find four party food items and the price of each. What will the total cost be?

Food Items	Cost
_____	_____
_____	_____
_____	_____
Total	_____

3. Your brother's birthday is next week and you want to buy him a gift. Your limit is \$20.00. Shop in the newspaper for something he likes.

Gift \_\_\_\_\_ Price \_\_\_\_\_  
 Store \_\_\_\_\_



How much do you have left from the \$20.00 after buying the gift? Include tax.

4. Can you find a business in the newspaper that sells each of the following items?

<b>Item</b>	<b>Place to buy</b>
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Automobile tires	
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Television	
------------	--

Men's clothing	
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Furniture	
-----------	--

Jewelry	
---------	--

Real estate	
-------------	--

Shoes	
-------	--

Groceries	
-----------	--

Toys	
------	--

Used car	
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Think of math word problems from one of the above for another student to complete.

\*Using Newspapers in Elementary Grades, NAA Foundation

# MATHEMATICS • DEALING with DECIMALS



**DIRECTIONS:** Think of a special occasion that's coming up for your family. Being aware of price range and the best value for your money, choose gifts for a person in your family. List several choices, then rank them in order of preference.



For whom are you shopping?

ITEM	COST	STORE	RANK

**FOLLOW-UP:** List the items in order from least to most expensive. Does the reordering affect your preference?





DIRECTIONS: Choose a place to go or something to do from the newspaper.

1. What did you choose?
2. Why did you choose it?
3. How much does it cost?
4. From the newspaper, choose an outfit to wear to the place or event. Figure out the cost.

Item to wear

Cost

A.

B.

C.

D.

E.

F.

G.

H.

Sub total

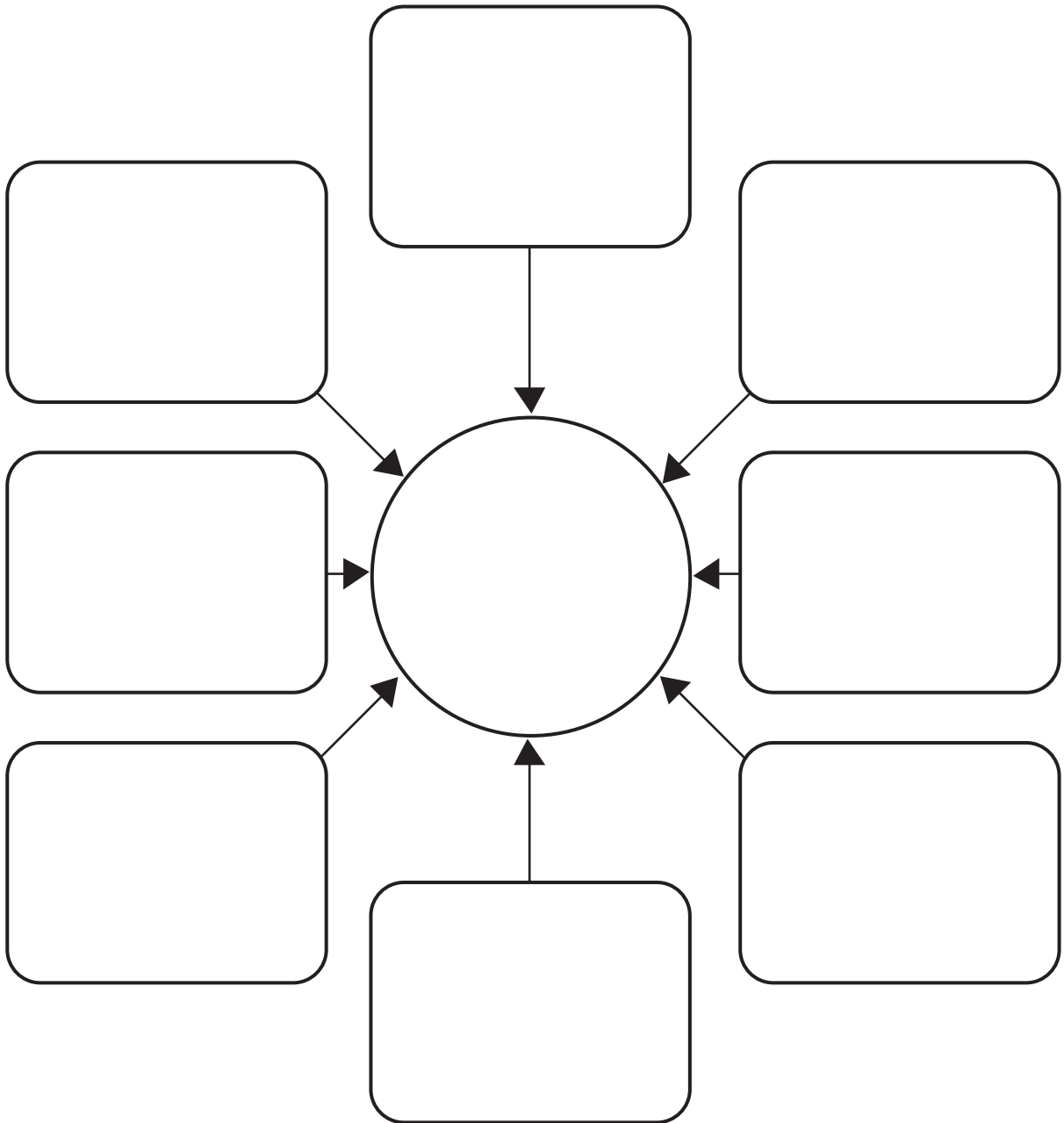
Tax

TOTAL

FOLLOW UP: For fun, cut out the outfit and glue it on a person you draw.



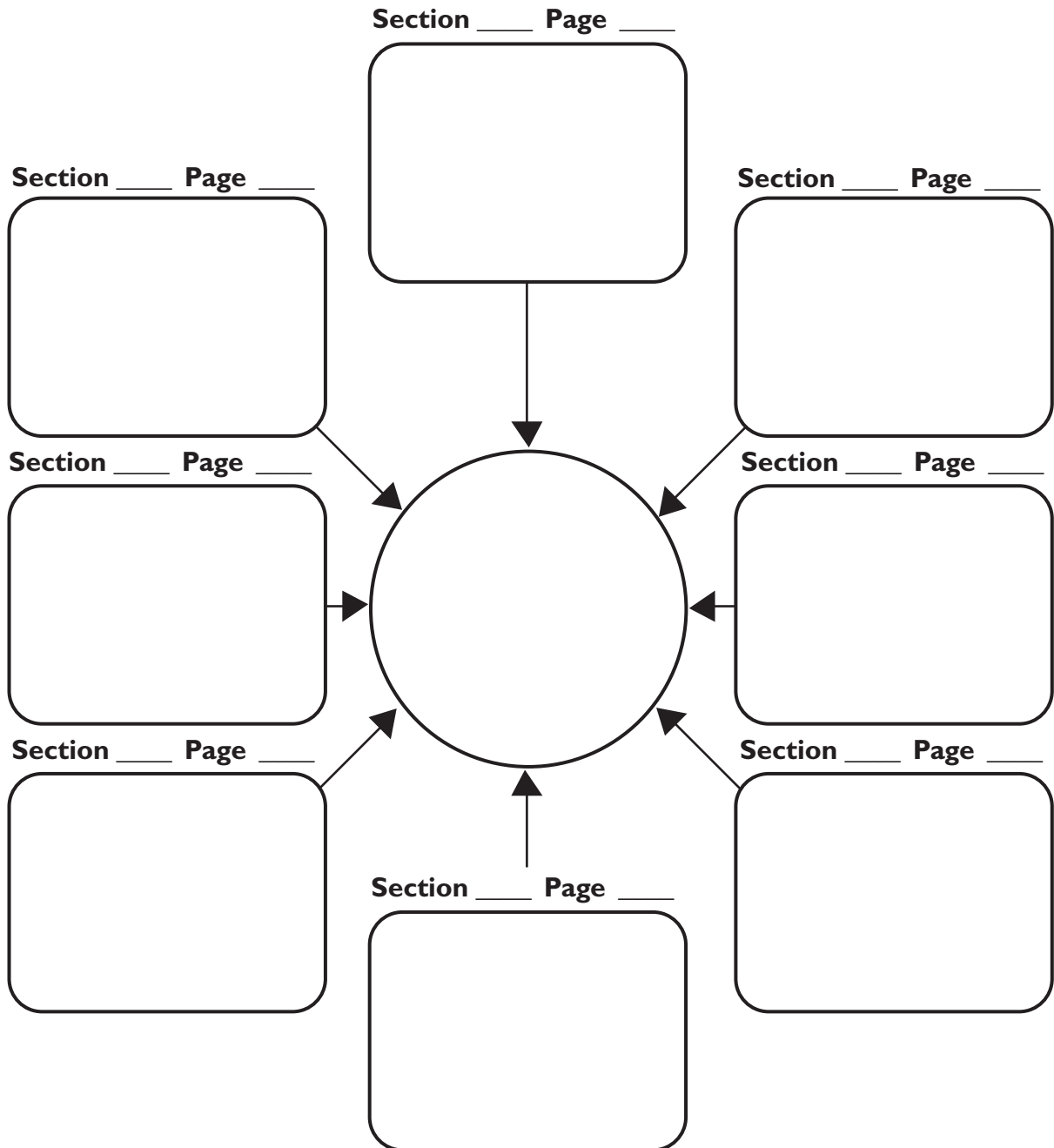
**DIRECTIONS:** Locate a number in the newspaper that can be factored and write it in the center circle. On the outside boxes, write the factors.



# MATHEMATICS • ANSWER in the CIRCLE



**DIRECTIONS:** Write a number, such as 20, in the center circle. Use News, Sports, Food, Weather, TV-Movies, Classified ads, retail ads, stock reports and other sections to come up with problems that will result in the answer written in the circle. Use as many different sections and pages of the newspaper as you can. Write the questions inside the boxes. On the outside, give the sections and page numbers for the facts used as the basis of the questions.



**FOLLOW-UP:** Which problems are realistic? Which are not realistic, just made up to get the correct answer?



# MATHEMATICS • TV TIME



**DIRECTIONS:** From today's TV schedule, select the programs that you'd like to watch during your free time. List the programs in order of preference, filling in times and channels in the chart below. Check to be sure that times do not overlap.

TV Show	Begins	Ends	Channel

**FOLLOW-UP:** If you limited your viewing to two hours a day, which shows would you watch?

# MATHEMATICS • RECIPE REWRITE



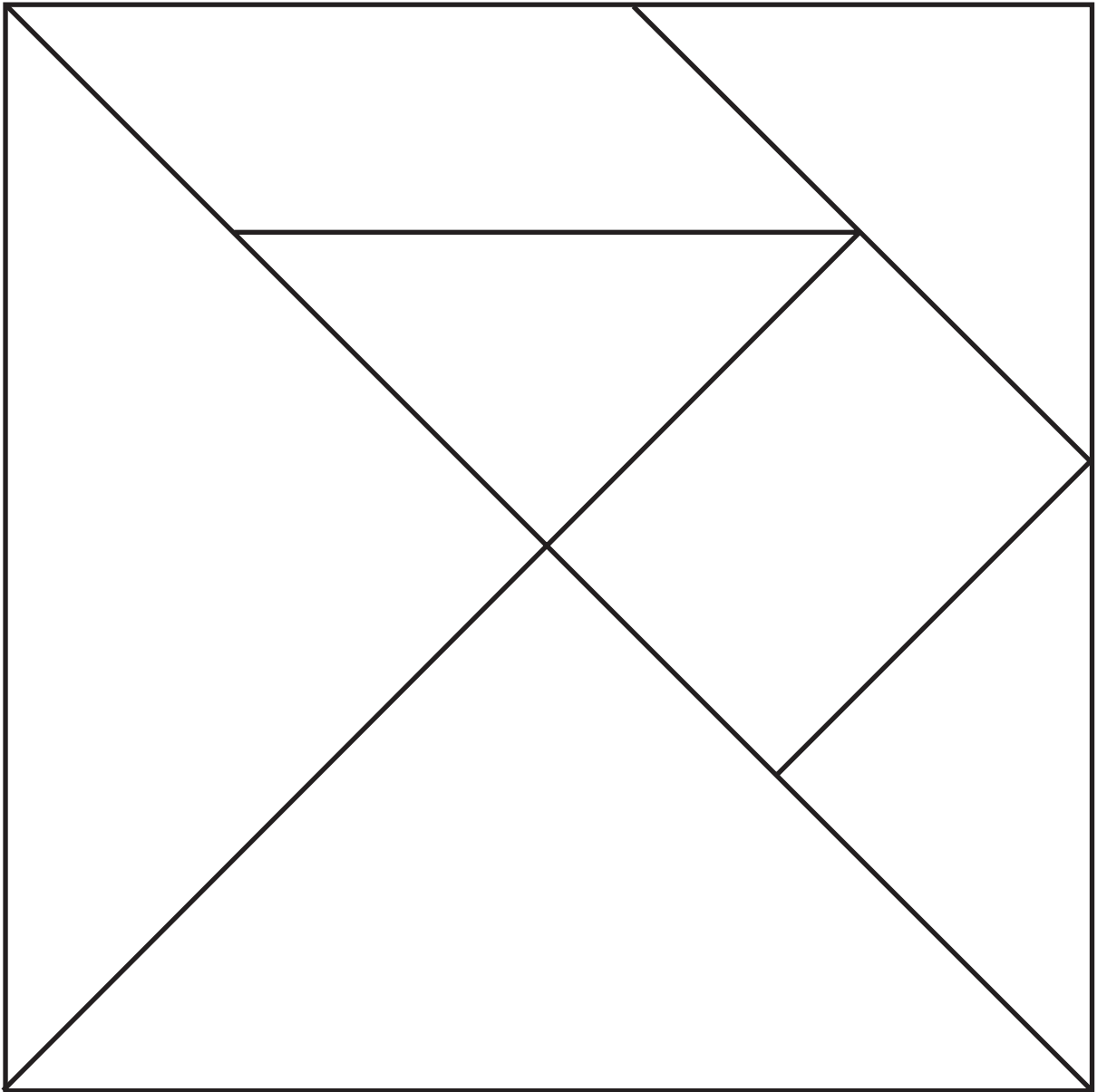
**DIRECTIONS:** Clip a recipe from the Food section of the newspaper and paste it in the space on the left. (Fold and staple if necessary.) In the blank above the recipe, show how many people the recipe serves. Then decide whether to double the recipe or cut it in half. Refigure the amounts of the ingredients for your recipe and record them in the space on the right, filling in the blank for the number of servings your recipe will serve.

This recipe serves \_\_\_\_\_ people:

This recipe serves \_\_\_\_\_ people:



**DIRECTIONS:** Here is the pattern for a Tangram Puzzle. You can fold a 10 x 10 newspaper square to make one of your own.



**FOLLOW-UP:** What kind of art have you created? Describe what you see in the newspaper after you create your puzzle.

# MATHEMATICS • GEOMETRY SCAVENGER HUNT

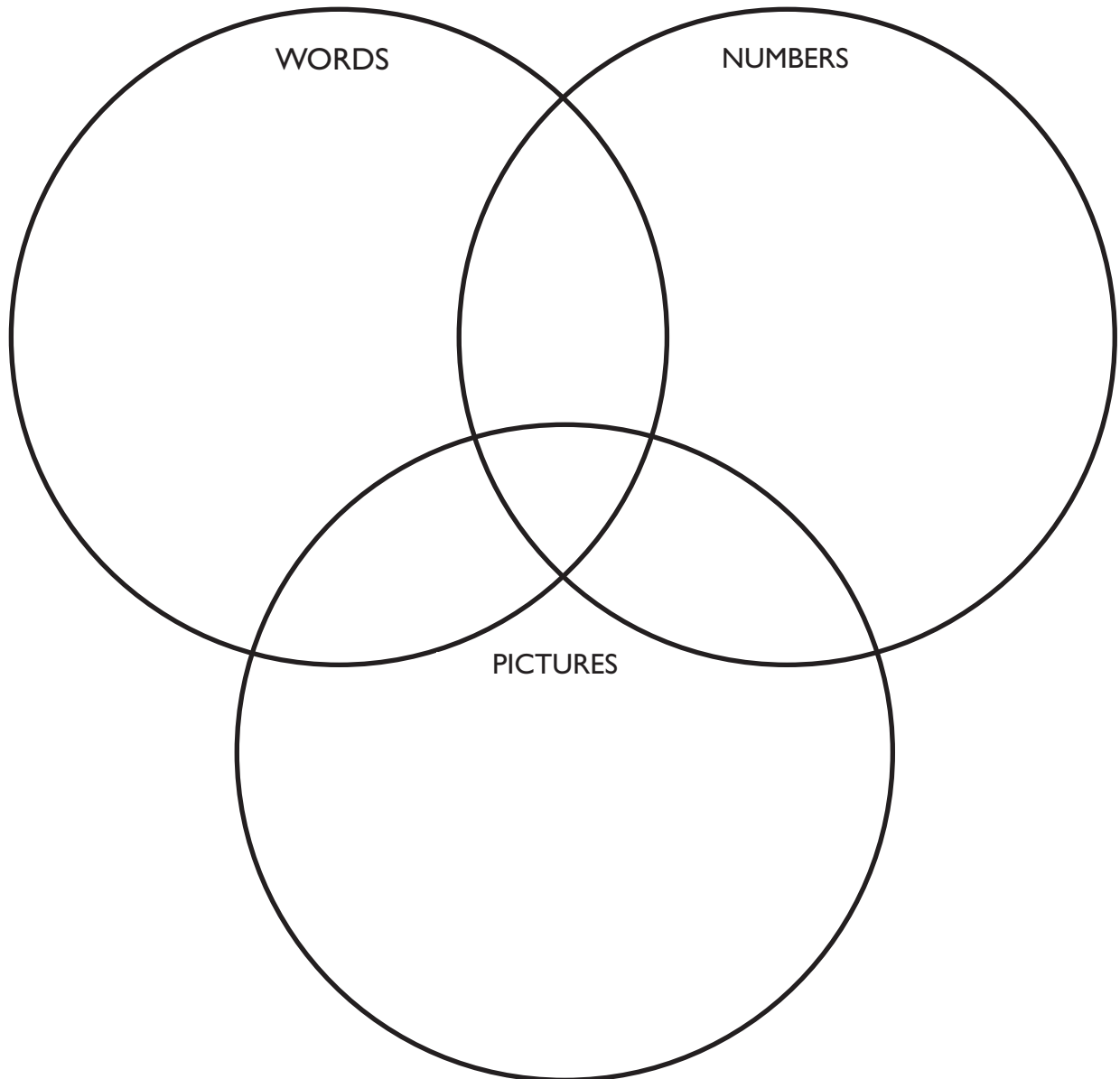


DIRECTIONS: Search your newspaper to find the following:

1. A triangle
2. Intersecting lines
3. A square
4. A cylinder
5. Two congruent figures
6. A square
7. Perpendicular lines
8. A circle
9. A right angle
10. Two similar figures



**DIRECTIONS:** Locate three different sets of data (for example, words, numbers and pictures) and organize the data into like sets. Selections should be based on their attributes or characteristics. If necessary draw the diagram below on larger paper for pasting the words, numbers and pictures you choose.





**DIRECTIONS:** Read the newspaper to locate football scores. Using the charts and/ or stories, find out the total points scored for several games and how the points were scored (safety, field goal, touchdown, extra point, two-point conversion). Fill in the chart below with the names of the teams, their points and final scores.

Name of Team	1	2 (safety)	2 (two-point conversion)	3	6	TOTAL POINTS
Team 1						
Team 2						
Team 1						
Team 2						
Team 1						
Team 2						
Team 1						
Team 2						
Team 1						
Team 2						
Team 1						
Team 2						

**FOLLOW-UP:** Express one of the scores as a linear equation: X= touchdowns, Y=extra point, Z=field goal, A=safety, B=2-point conversion.



**DIRECTIONS:** Some abbreviations used in basketball statistics are given below. Select five players and find the following information about them: MP (minutes played), FG (field goals), FT (free throws), R (rebounds), A (assists), TP (total points)

PLAYER'S NAME	MP	FG	FT	R	A	TP

**FOLLOW-UP:** Answer the following and similar questions using your data:

1. What percent of the game did each person play?
2. How many points did the players score per minute of playing time?
3. Whose statistics are most impressive? Why?

Make up another problem and give it to a classmate to solve.

# MATHEMATICS • ATTRIBUTE SOUP



**DIRECTIONS:** Cut objects out of the newspaper that all fit a sorting rule. Glue them to the pot. Write the rule.



**Sorting Rule:**





**DIRECTIONS:** Use the charts to do the following:

- Compare prices of orange juice canned, frozen and in cartons.
- Compare the cost of furniture in retail and classified ads.
- Compare the cost of foods advertised in grocery ads, listing the same foods and their prices at various grocery stores.
- Compare salaries for five jobs.
- Compare the cost of five houses.



## JUICE PRICES

Frozen \_\_\_\_\_

Carton \_\_\_\_\_

Can \_\_\_\_\_

**Best Deal?**

\_\_\_\_\_

\_\_\_\_\_



## FURNITURE

Type	New/Used	Price



## GROCERY STORES

Grocery Store #1 \_\_\_\_\_

Item	Price

Grocery Store #2 \_\_\_\_\_

Item	Price

Grocery Store #3 \_\_\_\_\_

Item	Price



### SALARIES

	Job	Salary	Rank
1.			
2.			
3.			
4.			
5.			



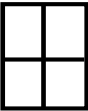
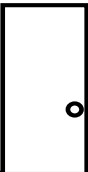
### HOUSES

	House	Cost	Size
1.			
2.			
3.			
4.			
5.			

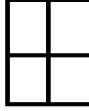
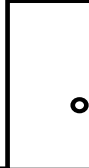


**DIRECTIONS:** Over a period of time, collect information on housing prices in your town and other areas in your county. Use the charts below, to display your results:

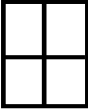
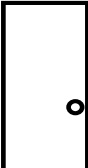
**Houses  
in my  
community**

<b>HIGH</b>		<b>LOW</b>
Bedrooms		Bedrooms
2 _____		2 _____
3 _____		3 _____
4 _____		4 _____

**Houses  
in other  
areas of the county**

<b>HIGH</b>		<b>LOW</b>
Bedrooms		Bedrooms
2 _____		2 _____
3 _____		3 _____
4 _____		4 _____

**Apartments  
in your home county**

<b>HIGH</b>		<b>LOW</b>
Bedrooms		Bedrooms
2 _____		2 _____
3 _____		3 _____
4 _____		4 _____

**FOLLOW-UP:** To compare costs with houses and apartments in other counties or states, use the Classified ads in online newspapers or other cities' print newspapers. With the information you obtain, figure the mean, median and range of costs for each type of housing in different locations.



**SITUATION I**

Pretend that you are recently divorced, have not worked in five years and have one small child to support. (You are supposed to receive \$500 per month in child support.) Your work experience includes retailing and some computer programming.

**ACTIVITY**

1. Find a job in the Classified section.
2. Set up a budget showing the following items:
  - MONTHLY INCOME
  - HOUSING COST
  - TRANSPORTATION COST
  - CLOTHING COST
  - INCOME REMAINING FOR FOOD, SAVINGS, ETC.

**SITUATION II**

Pretend that you are a 48-year-old chemical engineer with experience in plastics who wants to relocate in the southeastern United States. (You may be willing to take a job related to but not requiring your training and experience.) You have lost all of your savings except \$16,000 in a poorly performing oil investment. You have two teen-age children and a wife to support.

**ACTIVITY**

1. Find a job in the Business section.
2. Set up a budget showing the following items:
  - MONTHLY INCOME
  - HOUSING COST
  - TRANSPORTATION COST
  - CLOTHING COST
  - INCOME REMAINING FOR FOOD, SAVINGS, ETC.



**SITUATION III**

Pretend that you recently graduated with a degree in history from a liberal arts college. You are married to a library assistant who makes approximately \$25,000 per year.

**ACTIVITY**

1. Find a job in the Business section.
2. Set up a budget showing the following items:
  - MONTHLY INCOME
  - HOUSING COST
  - TRANSPORTATION COST
  - CLOTHING COST
  - INCOME REMAINING FOR FOOD, SAVINGS, ETC.

**SITUATION IV**

Pretend that you failed senior English and lacked enough credit to graduate in June. You are single. Your parents refuse to support you or provide housing. Your only experience is in fast foods. You have a five-year-old car with engine trouble. It will cost you \$1,800 to repair the car and a dealer has offered you \$2,500 for it as is.

**ACTIVITY**

1. Find a job in the Classified section.
2. Set up a budget showing the following items:
  - MONTHLY INCOME
  - HOUSING COST
  - TRANSPORTATION COST
  - CLOTHING COST
  - INCOME REMAINING FOR FOOD, SAVINGS, MORE EDUCATION, ETC.



**SITUATION V**

Pretend that you are a recent high school graduate, single and with little or no work experience. You were a good student in Career-Technical courses especially horticulture. Your plants won several blue ribbons at the county fair. You can no longer live with your parents, since they are tenants on a remote, rural tobacco farm.

**ACTIVITY**

1. Find a job in the Classified advertising section or Business section.
2. Set up a budget showing the following items:
  - MONTHLY INCOME
  - HOUSING COST
  - TRANSPORTATION COST
  - MONTHLY FOOD BUDGET BASED ON PACKED LUNCHES AND THREE FAST-FOOD MEALS PER WEEK
  - INCOME REMAINING FOR CLOTHING, SAVINGS, ETC.

**SITUATION VI**

Pretend that you graduated from high school in June. You are married to an auto mechanic who makes \$1,200 per month. You have no job experience and were a poor student in business subjects in high school. Already, you pay \$375 per month in rent and you need to replace the nine-year-old car you and your husband drive.

**ACTIVITY**

1. Find a job in the Classified section.
2. Find a car to replace the one already owned.
3. Use your combined incomes to set up a budget showing the following items:
  - MONTHLY INCOME
  - HOUSING COST
  - TRANSPORTATION COST
  - INCOME REMAINING FOR FOOD, CLOTHING, SAVINGS, ETC.