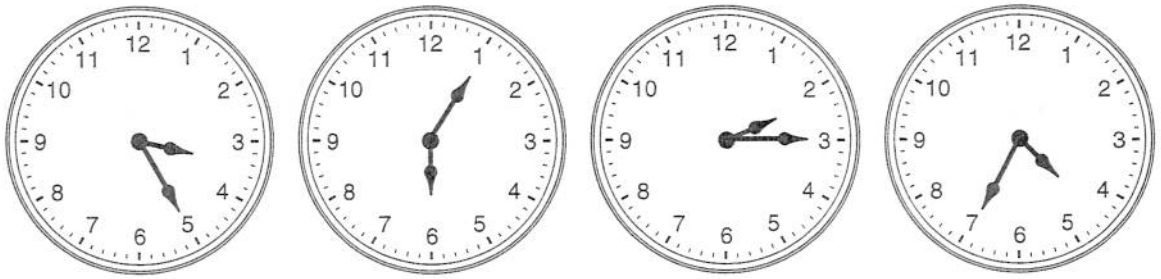
Name_____

Minute by Minute

E 4-1
VISUAL THINKING

Examine the clocks in each group. Write the times shown in order from earliest to latest. Assume that all the times shown are P.M.

1.



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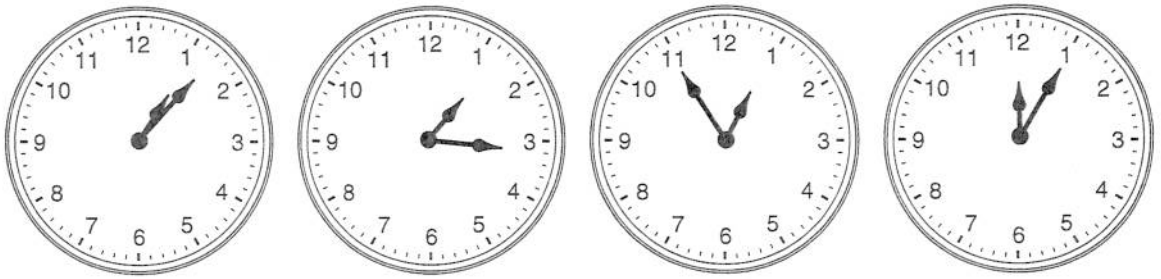
2.



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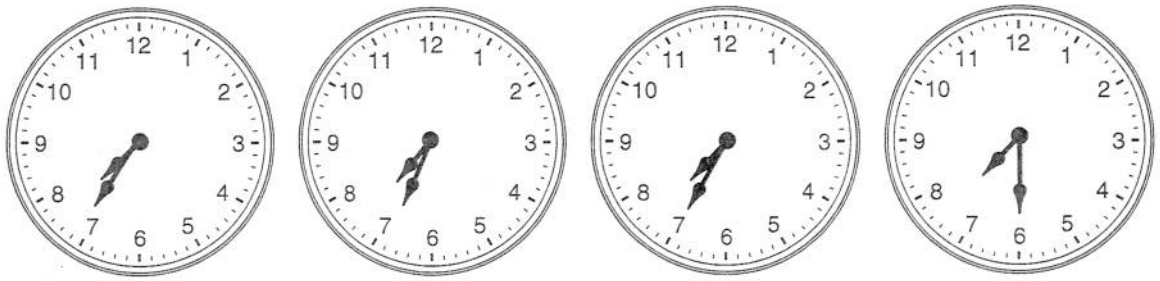
3.



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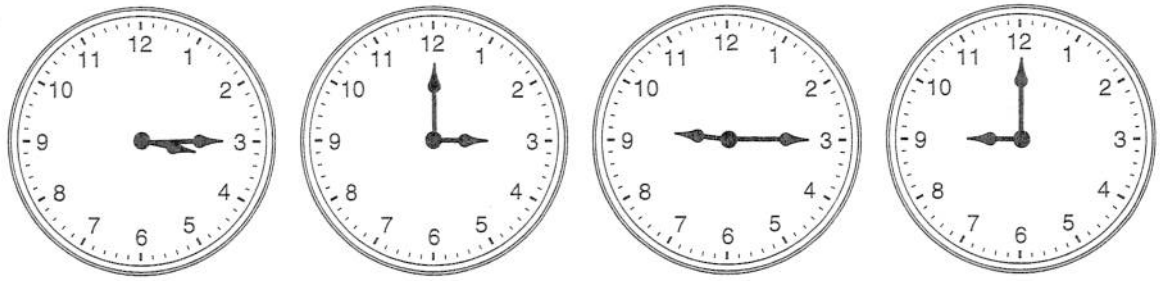
4.



_____

Name_____

Time to Talk

E 4-2
NUMBER SENSE

Match the statement on the left to the correct response on the right.

We've gone 72 hours without electricity.

I've owned the car for 54 months.

They said we might have to wait eight weeks for delivery.

Her family has owned the land for over a century.

I've had season tickets for three decades now.

We usually get rid of them after $4\frac{1}{2}$ years.

Yowsa—that's longer than most people live.

Wow. Three days is a long time for that!

Really? That's over a quarter century.

One time I waited even longer than two months.

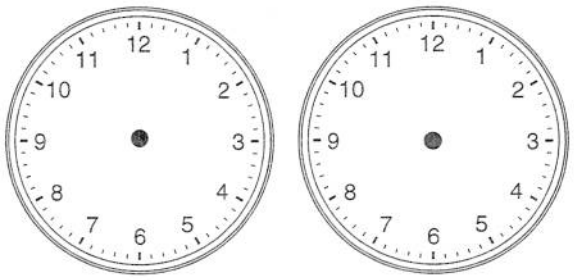
Name _____

It's About Time

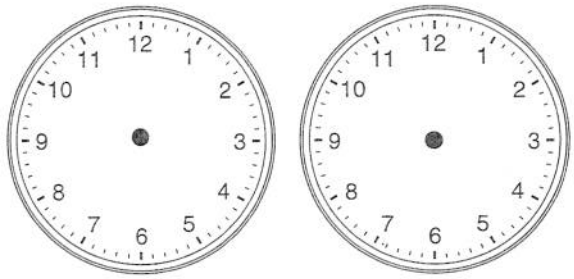
E 4-3
ESTIMATION

Study each situation. Draw the hands on both clocks to show your estimate of how long each activity would take. Write A.M. or P.M. under each clock.

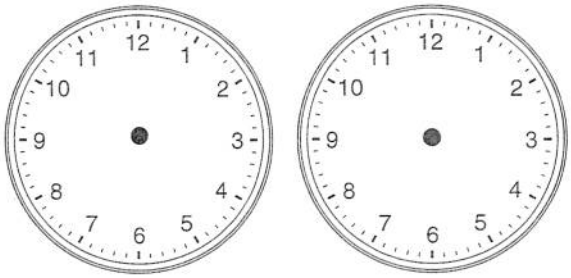
1.



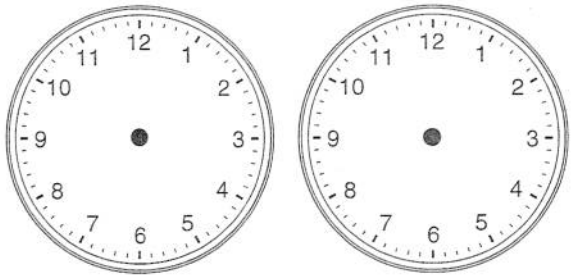
2.



3.



4.



Name _____

Who Wants Pizza?

E 4-4
DECISION MAKING

Use the pizza menu to answer the questions below.

Roger's Pizza

Order No.	Pizza Sizes	Number of People	Price
1	2 small pizzas	4	$8.95
2	1 large, 1 small	5	$11.95
3	1 large	3	$7.95
4	1 small	2	$5.95

1. Alexandra has $18.00. She wants enough pizza to feed 8 people. What should she order?

_____

_____

_____

2. Carlos is buying lunch for himself. What should he get?

_____

3. Julia is paying for order No. 2. Should she use a $10.00 bill or a $20.00 bill?

_____

4. Andre pays for order No. 1 with a $20.00 bill. How much change will he get back?

_____

5. On each table at the pizza restaurant is this sign. Bill ordered a small pizza with extra cheese. Cynthia, Derek, and Juanita ordered a large pizza. Who will eat first?

How Long It Takes to Cook

Small Pizza	20 min
Large Pizza	30 min
Any pizza with extra cheese	Add 10 min

_____

_____

_____

Name _____

Let Me Check My Calendar

E 4-5
REASONING

Larry is a very busy man. He often has to meet with salespeople in his department, as well as attend family functions. Study his appointment calendar below. Then tell whether each of Larry's statements is *True* or *False*.

July

S	M	T	W	T	F	S
1	2 Managers meeting 3–5	3	4	5 Presentation 1–3	6	7 Swimming party
8 Baseball game 2–5	9	10	11 Dentist 2:00	12	13 Workshop 8–4	14 Pick out furniture 1:00
15 BBQ NOON	16 Business trip to Denver → Leave 6 A.M.	17	18 → Home 8 P.M.	19	20 Sox game 7:15	21 Recital 12:00
22/29	23/30	24 Shop for gift after work	25	26	27 Day off—Mona's birthday	28

1. "I can meet with you about the new program on Tuesday the 10th, at around 2:00." _____

2. "I'll be home the third Tuesday in July. Let's meet then." _____

3. "No, I can't meet on the first Monday of the month. I have a big meeting." _____

4. "Can I help you set up the new swing set on the 8th at around 3:00? Sure." _____

5. "You can show me the new proposal after the meeting on the last Friday in July." _____

6. "I'm free every Thursday morning this month." _____

Name _____

Who Gets the Job?

E 4-6
DECISION MAKING

Mr. Capello is opening up a new banquet hall. He needs to hire some busboys to clear tables. He also needs to hire a set-up crew to move and arrange tables and chairs for different banquets. Before hiring, Mr. Capello tested each of their skills. The results are shown in the pictographs below.

Number of Tables Set Up in 15 Minutes

Dan	□□□□▯
Peter	□▯
Will	□□▯
Sven	□

Each □ = 4 tables

Amount of Time to Clear One Table

Dan	○○◔
Peter	○○○○
Will	○○
Sven	◔

Each ○ = 1 minute

1. Which person should Mr. Capello immediately hire as a busboy? Why?

_____

_____

2. Which person would likely do a poor job as a busboy? Explain.

_____

_____

3. For which position would Mr. Capello most likely hire Dan? Why?

_____

_____

_____

Name _____

Plotting Solutions

E 4-7
ALGEBRA

Solve each equation.

1. $\frac{q}{2} = 7$

$q =$ _____

2. $y + 2 = 18$

$y =$ _____

3. $17 - r = 7$

$r =$ _____

4. $8s = 88$

$s =$ _____

5. $8 + 8 + w = 32$

$w =$ _____

6. $p - 11 = 2$

$p =$ _____

7. $4 \times a = 48$

$a =$ _____

8. $\frac{144}{t} = 12$

$t =$ _____

9. $k + 7 + 4 = 22$

$k =$ _____

10. $\frac{200}{j} = 20$

$j =$ _____

11. $73 - n = 59$

$n =$ _____

12. $3h = 48$

$h =$ _____

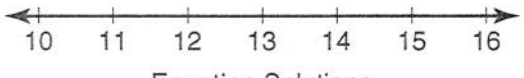
13. $\frac{750}{b} = 50$

$b =$ _____

14. $x + 87 = 97$

$x =$ _____

15. Complete the line plot of the solutions of Exercises 1–14. Are there any outliers? _____



Equation Solutions

Name _____

Graphing True or False

Washington Elementary School kept a record of the number of books read by each grade in October. Gwen is using the data in the table to make a bar graph. Tell whether each statement is *True* or *False*.

Grade	2nd	3rd	4th	5th	6th
Books Read	395	419	461	443	511

1. Gwen's graph will have 5 bars. _____

2. The bar for 3rd grade will be twice as tall as the bar for 2nd grade. _____

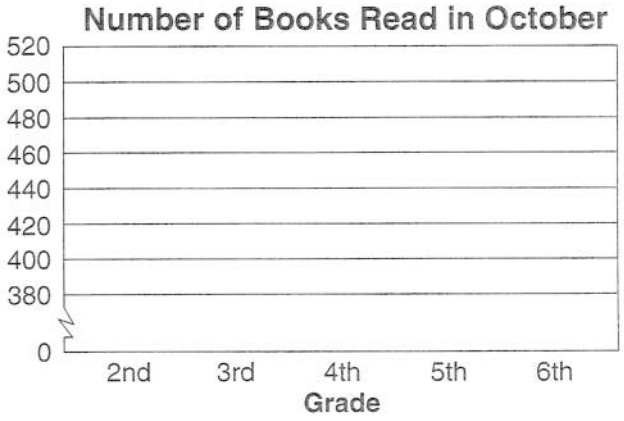
3. The bar for each grade will have a greater length than the bar for the grade before. _____

4. The 6th grade bar will have the greatest length. _____

5. The title of Gwen's graph should be "Number of Books Read in November." _____

6. A good scale for Gwen's graph is 20. _____

7. Complete the bar graph using the data in the table.



Name _____

Pictured Pairs

E 4-9
VISUAL THINKING

Draw a point for each ordered pair and label it. Connect the points in letter order. Then connect the last point to the first point.

1. **A.** (5, 9)

   B. (7, 7)

   C. (9, 5)

   D. (7, 3)

   E. (5, 1)

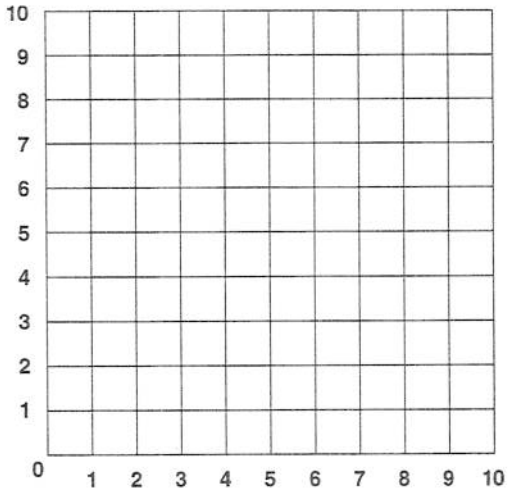
   F. (5, 4)

   G. (1, 4)

   H. (1, 6)

   I. (5, 6)

   What is the picture? _____



2. **A.** (2, 2)

   B. (1, 8)

   C. (3, 5)

   D. (4, 8)

   E. (5, 5)

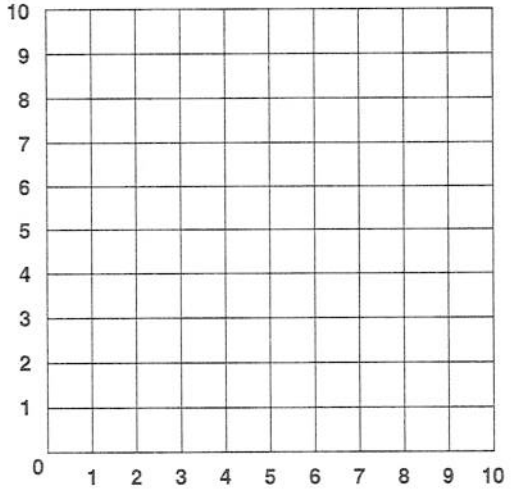
   F. (6, 8)

   G. (7, 5)

   H. (9, 8)

   I. (8, 2)

   What is the picture? _____

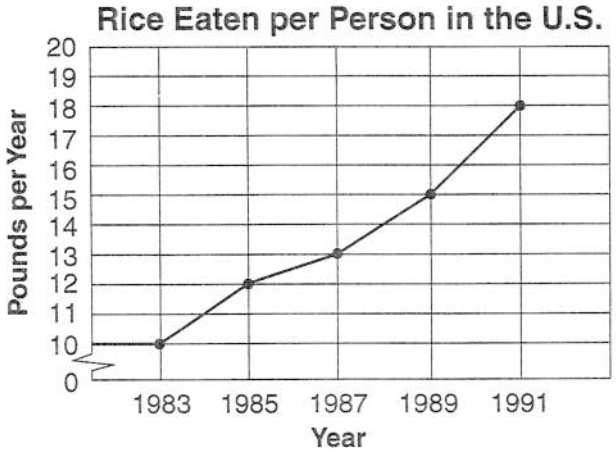


Name_____

The Rice We Eat

E 4-10
DATA

The line graph shows the amount of rice eaten per person in the United States from 1983 to 1991. Use the graph to answer the questions. Circle the correct answer in Exercises 1–4.



1. Which of the following does the graph NOT show?

   A. That the amount of rice eaten per person was 2 lb more each year.

   B. That the amount of rice eaten per person increased over time.

   C. That more rice was eaten per person in 1989 than in 1983.

2. Between which two years did the amount of rice eaten per person increase the most?

   A. Between 1983 and 1985

   B. Between 1987 and 1989

   C. Between 1989 and 1991

3. Based on the graph, how much rice per person do you think was eaten in 1988?

   A. 15 lb

   B. 14 lb

   C. 13 lb

4. If the trend shown in the graph continued, how much rice was eaten per person in 1993 compared to 1991?

   A. More

   B. Less

   C. The same

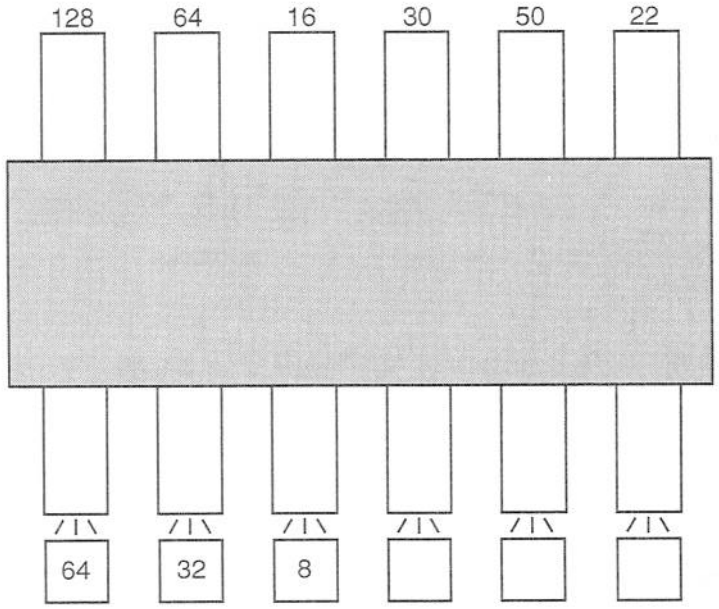
Name_____

Mystery Machines

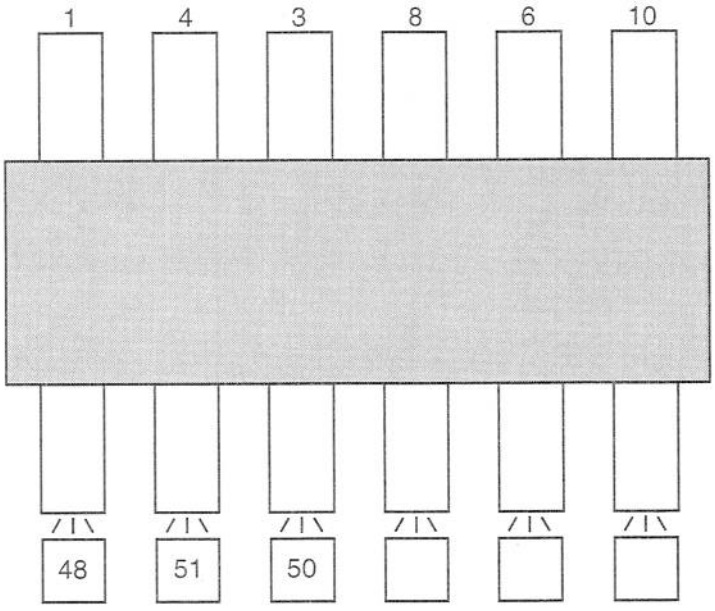
E 4-11
NUMBER SENSE

Figure out the mystery in each machine below. A number goes in and another number goes out. Find what happens to the number in the machine. Write down each pattern. Then fill in the blank boxes.

1.



2.



Name _____

Special Numbers

Use the clues below to find the special number in each shape.
Each clue tells you a number that is NOT the special number.

1.

8	36	95	
11	48	29	60

It is not the mean of 32, 35, 38, and 39.
It is not the quotient of 48 and 6.
It is not the product of 5 and 12.
It is not the median of 22, 25, 28, 29, 31, 45, and 67.
It is not the sum of 43 and 52.
It is not the mode of 11, 23, 3, 11, 43, 3, 27, 11, and 91.

The special number is _____.

2.

7	26		
	19		44
	140	11	62

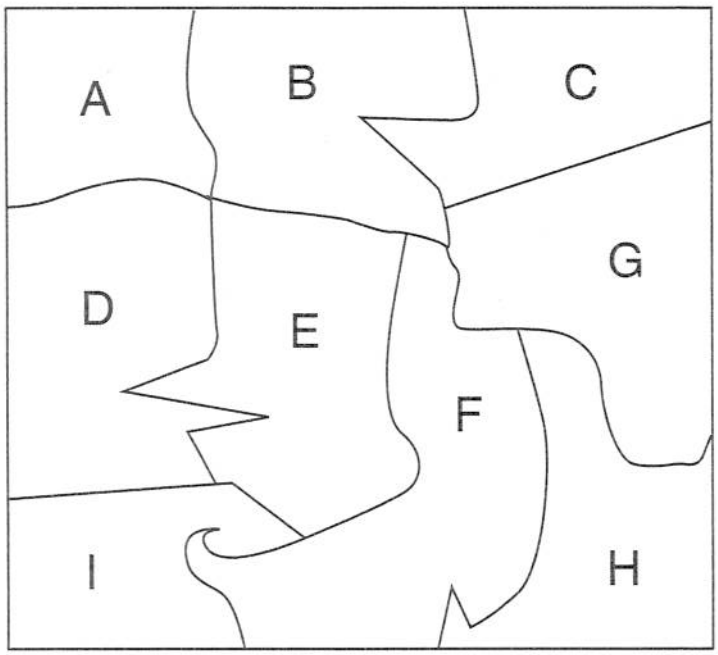
It is not the mode of 2, 19, 6, 17, 19, 43, 29, 19, and 17.
It is not the difference of 81 and 19.
It is not the quotient of 77 and 11.
It is not the mean of 18, 25, 34, 22, 91, 54, and 64.
It is not the product of 7 and 20.
It is not the median of 3, 4, 5, 6, 11, 12, 13, 14, and 18.

The special number is _____.

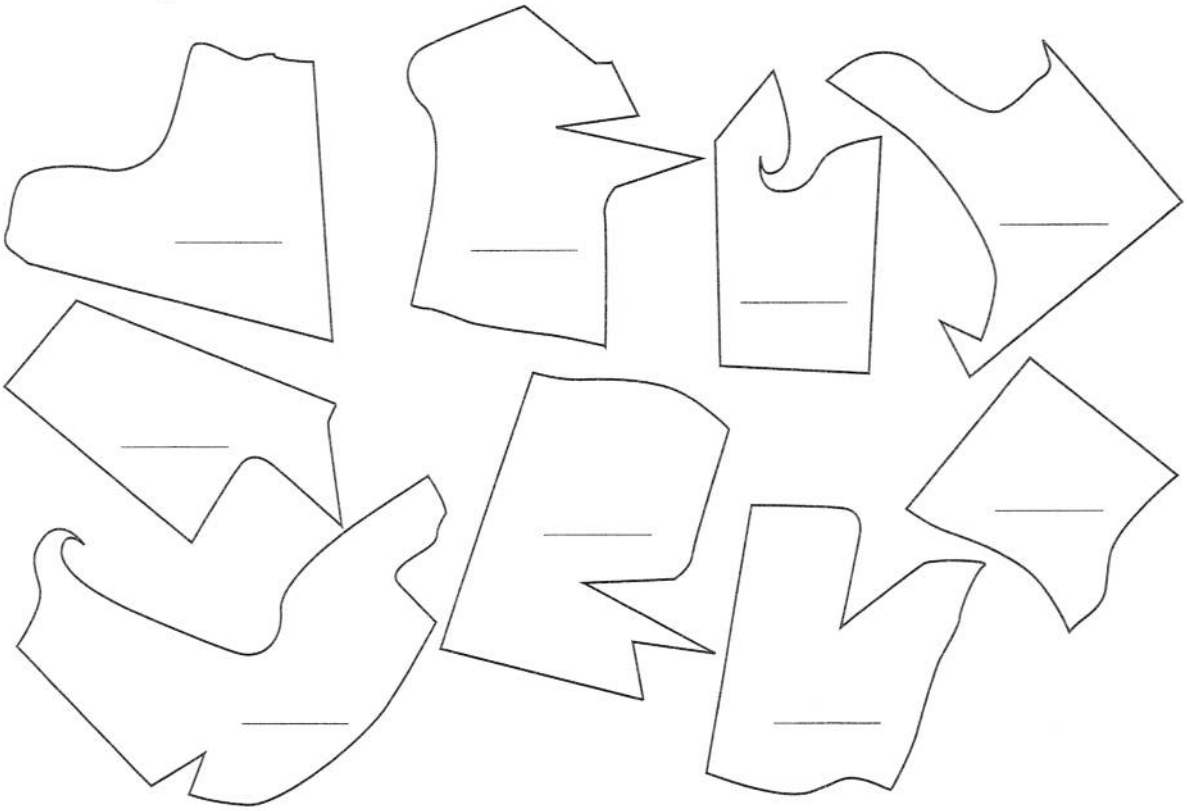
Name _____

Scattered Puzzle

E 4-13
VISUAL THINKING



Write the letter of each puzzle piece from the completed puzzle above in each piece below.



Name _____

Do Pictures Tell the Whole Story?

E 4-14
DATA

Use the data in the table below to make a misleading graph.

Books Missing from the School Library

Year	Books Missing
1998	7
1999	6
2000	8
2001	12
2002	11
2003	6

1. Make a graph that makes the change in missing library books appear very great.

2. Why would someone want to create a graph that is misleading? Explain your answer.

_____

_____

_____

Name _____

Saving Red Wolves

E 4-15
MENTAL MATH

In North America, there are two kinds of wolves. Gray wolves live almost everywhere, but red wolves live only in the southeastern United States. By 1970, only about 100 red wolves lived along the coast of Texas and Louisiana. Many of the wolves were a mix of red wolves and coyotes, so people thought the red wolf was extinct. The Alligator River National Wildlife Refuge in North Carolina began trying to save the red wolf. Scientists captured some wolves to help them, but only a small number of the captured wolves were true red wolves. In 1988, the first pair of true red wolves was released into the refuge. Today, about 100 red wolves live there.

Solve each problem. Write your answer in a complete sentence.

1. How many more red wolves are there in the refuge today than in 1988?

_____

_____

2. Red wolves are smaller than gray wolves. While a red wolf might weigh as much as 80 lb, a gray wolf can be 95 lb heavier. How much can a gray wolf weigh?

_____

3. If the refuge captured 400 animals and only 14 were true red wolves, how many of the animals were not true red wolves?

_____

4. Wolves usually have litters of 1 to 11 pups. If 8 wolves had pups in one month, what is the greatest number of pups there could be?

_____