Enrichment Packet #9

Due: Monday 11/5

NAME: _____

Jump to Score

At a jump rope contest at the Roosevelt School, players get two turns in each game. Each player wants to make a certain number of jumps in her second game in order to beat her own personal best record. Finish each player's chart to show how many more jumps she has to make.

1. Beatriz wants to score 300 points.

Game	Jumps Made	Jumps Still Needed
1	156	144
2	159	141
3	148	
4	164	

2. Gloria wants to score 350 points.

Game	Jumps Made	Jumps Still Needed
1	215	135
2	183	
3	175	
4	198	

3. Larissa wants to score 400 points.

Game	Jumps Made	Jumps Still Needed
1	221	
2	218	
3	175	
4	234	

4. Heidi wants to score 436 points.

Game	Jumps Made	Jumps Still Needed
1	270	
2	245	
3	218	
4	212	

5. Which player has to make the most jumps in her second game to meet her best goal in every game?
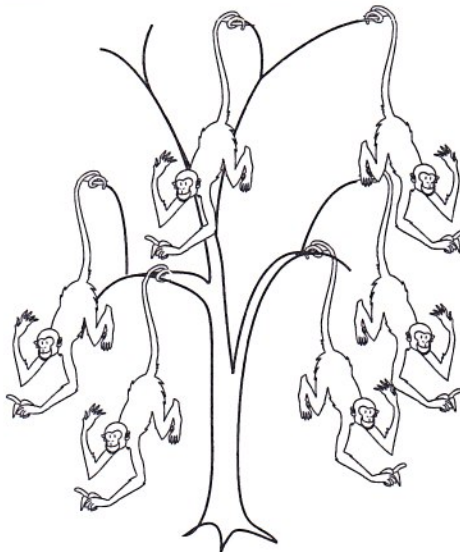
_____

Rhyming Multiplication

Write a number sentence for each verse.

1. As I was going to the store
   I saw seven dogs and one dog more.
   Each dog had fifteen bones to chew.
   How many bones came into view?

   _____

2. 18 marchers marched in a row.
   Each marcher had 4 horns to blow.
   They blew all the horns, both big and small.
   How many horns did they blow in all?

   _____

3. Six monkeys were kind of thrifty.
   They all loved bananas and they each ate fifty.
   Bananas to monkeys are a special treat.
   How many bananas did the monkeys eat?

   _____

4. What did I see on the street today?
   Seventy-seven fire trucks came my way.
   Nine firefighters on each truck waved at me.
   How many firefighters did I see?

   _____

Multiplication Word Problems

Solve each word problem. Show your work in the right-hand column. Label your answer.

	Show work in this column
1. A piece of cake has 347 calories in it. How many calories are there in 8 pieces of cake? answer: _____	
2. There is 135 feet of making tape on a roll. Henry has 6 rolls. How many feet of masking tape does he have in all? answer: _____	
3. A jet plane can travel 567 miles per hour. How many miles could it travel in 4 hours? answer: _____	
4. An adult panda can eat 138 pounds of bamboo each day. How many pounds of bamboo can a panda eat in a week? answer: _____	

Mathematical Marlena

Marlena is about to amaze you with great feats of mathematics.
Marlena says, "I want you to write the number 37 three times."

1. Now she says, "Multiply the first 37 by 1."   _____

2. Then she tells you, "Multiply the second 37 by 2."   _____

3. She directs you to "Multiply the third 37 by 3."   _____

4. She says, "Take each product and multiply it by 3."

_____

_____

5. Marlena now asks, "What is the pattern through the number 9?"

_____

_____

Then Marlena begins her second math game.

6. She tells you, "Write a number between 1 and 5."   _____

7. Then she says, "Now add 5 to the number."   _____

8. Now she says, "Multiply the number by 2."   _____

9. She says, "Subtract 2 from the product."   _____

10. Marlena then says, "Now multiply that answer by 2."   _____

11. Then she asks you to "Divide the product by 4."   _____

12. She finally directs you to "Subtract 4 from your answer." _____

Marlena says, "The answer is the number you wrote down!"

Name: _____

Multiplication
3-digit by 1-digit numbers

Directions: Use the number grid to decode the multiplication problems. Use the empty space to the right of each problem to show your work. Write the coordinates of the grid where your answer is found.

	A	B	C	D	E
1	327	5,220	3	9	5,454
2	606	423	8	2,418	403
3	4	8	5,728	432	7
4	546	9	580	716	2,616
5	2,961	888	6	2,664	108

example:

B, 2	4 2 3
x E, 3	x 7
A, 5	2, 9 6 1

a.
E, 2
x C, 5

b.
A, 1
x C, 2

c.
C, 4
x D, 1

d
D, 4
x B, 3

e.
E, 5
x A, 3

f.
B, 5
x C, 1

g.
A, 2
x B, 4

Name _____

Roll Out the Fun

Find the missing factors and products to complete the number   **Number Sense**
sentences. Then complete the sentences in the word problems.

Zippy Roller Coaster
Height: 83 ft
Length: 903 ft

Souvenirs
Baseball cap—157 tickets
T-shirt—279 tickets
Stuffed animal—318 tickets

1. Neil's family and Reena's family spent two days at the
   amusement park. On Fridays, family passes cost $109. On
   Saturdays, family passes cost $139.

   $2 \times 109 =$ _____ $2 \times 139 =$ _____

   Altogether, the two families spent _____ on Friday

   and _____ on Saturday.

2. The world's longest roller coaster is 9 times the length of
   the Zippy roller coaster. The world's highest roller coaster
   is 5 times the height of the Zippy roller coaster.

   _____ $\times 9 =$ _____ $83 \times$ _____ $=$ _____

   The world's longest roller coaster is _____ ft long.

   The world's highest roller coaster is _____ ft high.

3. Before leaving the amusement park, Reena went to the
   souvenir store. She got 1 baseball cap for each of her
   3 friends. Then she bought herself 2 stuffed animals.

   _____ $\times 157 =$ _____ $2 \times$ _____ $=$ _____

   Reena used _____ tickets to get gifts for her friends
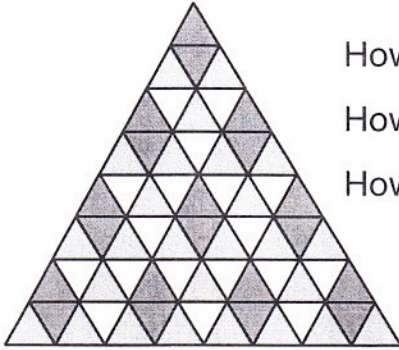
   and _____ tickets to get the stuffed animals.

How Many Are There?

Use addition, subtraction, or multiplication to find the number of each shape in the patterns in the figures below. Then explain how you found your answers.
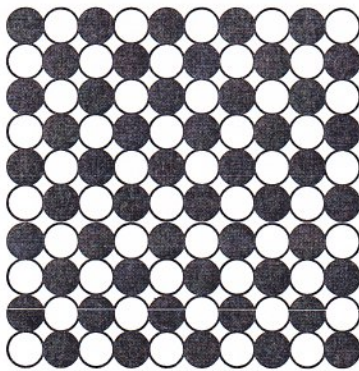
Patterns

1.

How many ◇ are in the pattern? _____

How many △ are in the pattern? _____

How many ▽ are in the pattern? _____

How did you find the number of each shape in the pattern?

_____

_____

_____

2.

How many ✧ are in the pattern? _____

How many ● are in the pattern? _____

How many ○ are in the pattern? _____

How did you find the number of each shape in the pattern?

_____

_____

_____