

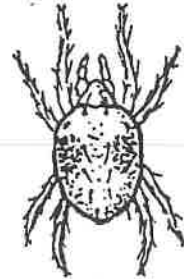
SUNSHINE MATH - 4
Jupiter, XX

Name: _____

(This shows my own thinking.)

- ★★★★ 1. The owner of "Pets On The Go" pet store currently has the following animals in his store: 5 dogs, 4 cats, 12 birds, 2 turtles, 3 snakes, 2 giant lizards, 1 pot-bellied pig, and 4 spiders . How many legs were on the 33 animals?

Answer: _____ legs



spider

- ★★ 2. Mrs. Ricketts is a farmer. She grows fruits and vegetables. The largest pumpkin she has ever grown weighed 68 pounds. The largest cantaloupe she has ever grown weighed 12 pounds, 8 ounces. What is the difference in weight between the pumpkin and the cantaloupe?

Answer: _____ pounds, _____ ounces

- ★★★ 3. If a customer wanted to buy Mrs. Rickett's largest canteloupe and the price was 50¢ per pound, how much would the customer have to pay?

Answer: _____

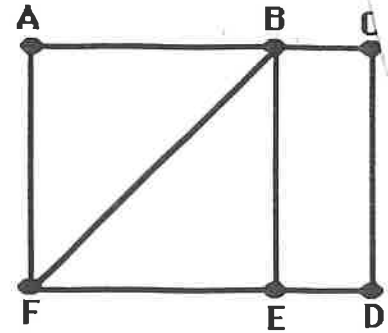
- ★ 4. Mark hid a \$10 bill inside his favorite book. He forgot the pages where he hid it. If the sum of the pages where the bill is hidden is 177, on what pages will Mark find his money?

Answer: page _____ and page _____

- ★ 5. Mr. Dexter brought home $\frac{1}{2}$ dozen eggs. He accidentally dropped the carton on the floor and $\frac{1}{3}$ of the eggs broke. How many eggs does he have left?

Answer: _____ eggs

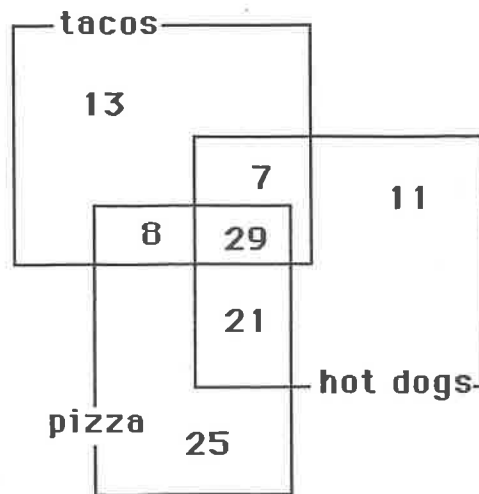
- ★★ 6. If you start in the right place, you can trace this entire map with your pencil without retracing a path between two points. Circle the two points where you can start to do this amazing feat!



- ★★ 7. The 6 fourth-grade classes at Marathon Elementary School are having a kick-ball tournament. Each class must play each other once in the tournament. How many kick-ball games must be scheduled?

Answer: _____ games

- ★★★ 8. The cafeteria staff at Fairlawn Elementary took a poll of its fourth grade students to find out how many students liked hot dogs, pizza, or tacos. The results are shown in the Venn diagram below.

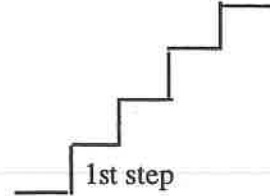


- a. Sixty-eight students liked hot dogs. How many students like tacos? _____ students
- b. How many students liked both pizza and tacos, but not hot dogs? _____ students
- c. How many students liked all three types of food? _____ students

SUNSHINE MATH - 4
Jupiter, XXI

Name: _____
(This shows my own thinking.)

- ★★★ 1. A cricket and a flea decided to hop on a set of stairs. The flea takes 2 steps in 1 hop. The cricket takes 3 steps in 1 hop. The set of stairs has 12 steps.



- a. On which steps will both the cricket and the flea land?

Answer: _____

- b. On which steps will neither of them land?

Answer: _____

- ★★ 2. Bill Cosby is one of the leading money makers in the entertainment business. If he earns \$92 million for two years' work, how much would he earn for five years' work?

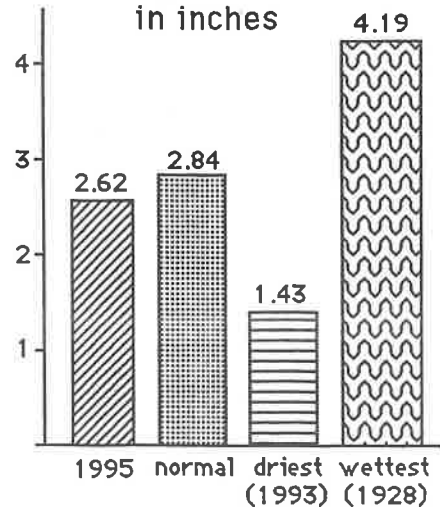
Answer: \$ _____ million

- ★ 3. The answer to problem 2 uses a short word name for a large number. Rewrite the answer to problem 2, but do not use "million." Remember -- this answer involves money!

Answer: _____

- ★★★ 4. Study the bar graph which shows the average precipitation for the month of June in the United States. Answer the questions pertaining to the graph.

**Average June Rainfall
in inches**



- a. Was June 1995 drier or wetter than normal?

Answer: _____

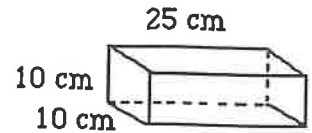
- b. What is the difference in rainfall between the wettest and driest Junes on record?

Answer: _____ inches

- c. How many years' difference exists between June 1995 and the wettest June on record?

Answer: _____ years

- ★★★ 5. A bricklayer is working with bricks of the size shown to the right. She puts a 2-cm layer of mortar between each row of bricks. How high will the wall be when 10 rows have been laid?



Answer: _____ cm

- ★ 6. It is recommended that children from ages 7 to 10 eat about 2000 calories per day. Andy is 8 years old. Listed below is everything Andy ate Tuesday. Did Andy eat less than, more than, or equal to the recommended amount of calories?

Breakfast
cereal (240 cal.)
milk (225 cal.)
banana (100 cal.)

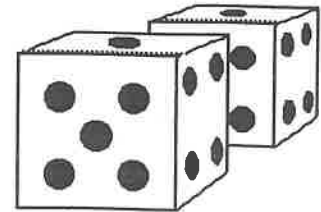
Lunch
Egg-salad sandwich (230 cal.)
applesauce (53 cal.)
milk (150 cal.)
potato chips (105 cal.)

Snack
cheese (114 cal.)
crackers (20 cal.)
yogurt (180 cal.)

Dinner
lasagna(330 cal.)
milk (150 cal.)
pear (90 cal.)
ice cream (230 cal.)

Answer: _____

- ★★ 7. You can roll two dice at a time, a white one and a red one, and there are 36 different ways for the "up faces" to land. The pair of dice to the right show the only way that a sum of two can come up. How many of ways will give a sum of 7 on the two up faces?



Answer: _____ ways

- ★★★ 8. About how many people lying head-to-toe are needed to stretch around the earth? Is it closest to: (a) 1 million, (b) 25 million, or (c) 100 million? (Hint: The distance around the earth is approximately 25,000 miles.)

Answer: _____



SUNSHINE MATH - 4
Jupiter, XXII

Name: _____
(This shows my own thinking.)

- ★★ 1. If the 24th day of the month falls on Saturday, on what day did the 6th fall?

Answer: _____

- ★★★ 2. There are 4 six-packs of soda in a case. Chris bought $\frac{1}{2}$ of a case and gave $\frac{1}{3}$ of what he had to Dana. How many cans of soda does Chris have left?

Answer: _____ cans

- ★★★ 3. Together, 6 boys and 12 girls weigh 1050 pounds. The boys all weigh the same, x pounds. Each girl weighs 55 pounds. What is the weight of one boy?



Answer: $x =$ _____ pounds

- ★★ 4. The sum of 3 consecutive numbers is 276. What are the numbers?
(Consecutive numbers differ by one: example: 8, 9, and 10)

Answer: _____, _____, and _____

- ★★ 5. If a family of 12 spiders wore shoes, how many *pairs* of shoes would they need?



Answer: _____ pairs.

- ★★ 6. A tropical storm passed through the town. It began to rain Monday morning at 8:45 AM and did not stop until the next day at 2:30 PM. How long did it rain?

Answer: _____ hours and _____ minutes



- ★★ 7. There are 3 cars, 4 bicycles, 2 tricycles, and 1 unicycle in the neighbor's garage. How many wheels are there in all? Forget about any "spare tires"!

Answer: _____ wheels

- ★★ 8. Rosemary bought a sweater on sale for \$6.98. She also bought a skirt for \$9.99. She paid an additional \$1.19 for sales tax. Rosemary gave the sales person a \$20 bill. How much change should she receive?

Answer: _____



- ★★★ 9. Study this pattern. 25 and also 32 would be in column E, if the pattern continued.

a. In which column would 100 appear? _____

b. In which column would 500 appear? _____

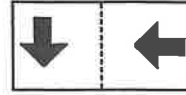
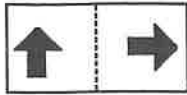
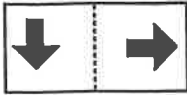
c. In which column would 1000 appear? _____

.
21	22
14	15	16	17	18	19	20
7	8	9	10	11	12	13
0	1	2	3	4	5	6
A	B	C	D	E	F	G

SUNSHINE MATH - 4
Jupiter, XXIII

Name: _____
(This shows my own thinking.)

- ★★ 1. The design to the right was drawn on a piece of clear plastic. The plastic was turned 180° clockwise, which is half of a complete rotation. It was then flipped over on the dotted line. Circle the picture below that shows how the design looks after these movements.



- ★ 2. If the heaviest dog in the world is 310 pounds and the next-heaviest is 14 pounds less, how much does the next-heaviest dog weigh?

Answer: _____ pounds



- ★★ 3. Sunae's group of close friends are going to fifth grade in September. All are going to Belleview Elementary and their homerooms will be rooms 12, 14, or 16. All of her friends but 4 are going to room 12, all but 4 are going to room 14, and all but 4 are going to room 16. Not counting Sunae, how many children are in her group of close friends?

Answer: _____ friends

- ★★★ 4. Sam and Suzie are twins. Sam has as many brothers as he has sisters -- Suzie has at least 1 sister, and twice as many brothers as sisters. How many kids are in the family altogether?

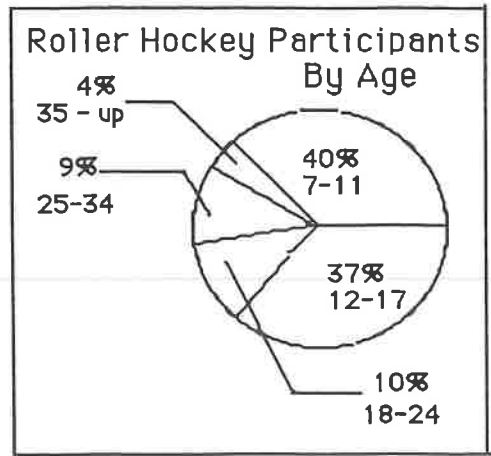
Answer: _____ kids

- ★★ 5. Josh bought a shirt for \$12.95, a belt for \$6.95, and a pair of jeans for \$27.97. The tax came to \$3.35. How much change did he receive if he gave the clerk 2 twenty-dollar bills and 2 ten-dollar bills?

Answer: \$ _____

★★★ 6. Danny's age is 13 and his favorite sport is roller hockey. Answer the questions about roller hockey participants using the circle graph below.

- a. How many ages are included in Danny's age group? _____
- b. List the age groups from greatest to least based upon their percent of participation.



Age Group	% Participation
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

- c. Use the data from part (b) to make a conclusion about participation in roller hockey as you get older:

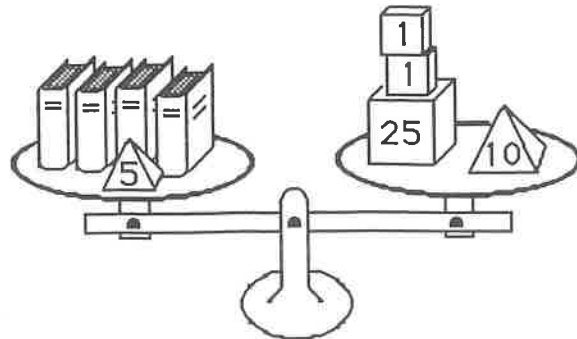
Answer: _____

★★ 7. What number am I?

Answer: _____

I am even.
 I am not 7×10 or less.
 I am not a multiple of 4.
 I am not a multiple of 3.
 I am less than $10 \times 10 - 20$.

★★★★ 8. Four identical books and a 5-ounce weight balance 37 ounces. The equation $4x + 5 = 37$ expresses this situation, where x is the weight of 1 book. How much does 1 book weigh?



Answer: $x =$ _____ ounces

SUNSHINE MATH - 4
Jupiter, XXIV

Name: _____
(This shows my own thinking.)

- ★★★ 1. The Daily News costs \$0.35 at the news stand and is published Monday through Friday. You can also buy a four-week subscription for \$4.75. If you bought a four-week subscription, how much would you save over buying it for four weeks at the daily rate?

Answer: _____

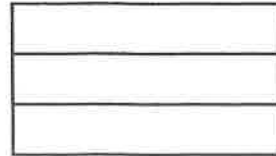
- ★★★ 2. Put > or < in the box.

$$\frac{1}{2} + \frac{3}{4} \quad \square \quad \frac{2}{3} + \frac{1}{2}$$

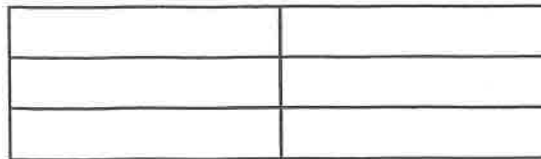
- ★★ 3. If you drink 1 can of soda each day, about how many milliliters would you drink in one year? (A can of soda is 354mL. Round your answer to the nearest ten thousand mL.)

Answer: _____ mL

- ★★★ 4. There are 6 rectangles formed by the lines in this figure:



How many rectangles are formed by the lines this figure?



Answer: _____ rectangles

- ★★ 5. 4 weeks 3 days 13 hours 21 minutes
- 2 weeks 6 days 19 hours 31 minutes

★★★ 6. Which pair of numbers, whose sum is 35, have the largest product?

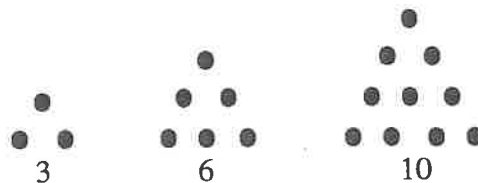
Answer: _____

★★ 7. Fill in the missing letter of the alphabet in this pattern:



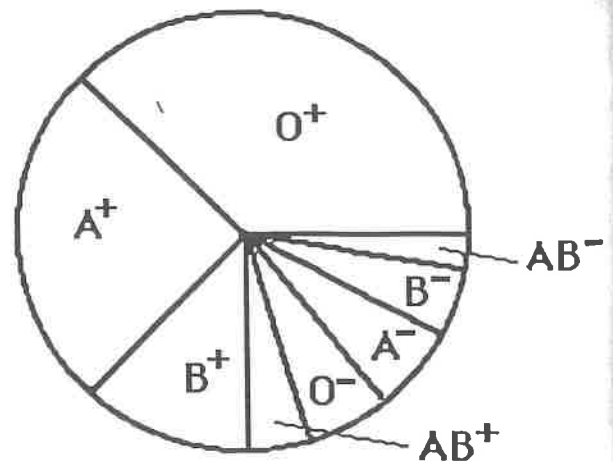
M V E M J S U N _____

★★★★ 8. Here are the first three triangle numbers: 3, 6, and 10.



What are the next four triangle numbers? Answers: _____, _____, _____, _____

★★★ 9. Everybody in the world has one of the eight blood types shown in the circle graph. The size of the region gives you an idea of the percent of people in the world with that type of blood. O^+ (read "oh positive") occurs more often than any other blood type -- 36% of the people in the world have O^+ blood. Answer the questions below.



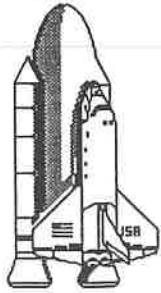
- About what percent have A^+ blood? _____
- What is the most rare blood type? _____
- If a person in your school were picked at random, would they be more likely to have AB^+ or O^- blood? _____

SUNSHINE MATH - 4

Jupiter, XXV

Name: _____
 (This shows my own thinking.)

- ★★ 1. When the Space Shuttle lifts off, it has moved 3 km by the time you clap your hands once. By the time you clap twice, the Shuttle has moved 9 km. By the 3rd clap, it has moved 27 km, and by 4 claps and it has moved 81 km. If this pattern continues, how many km has it moved by the time you have clapped 10 times?

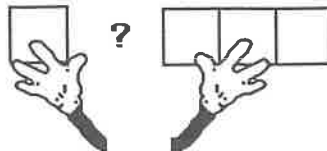


Answer: _____ km

- ★ 2. Maria needed some magazine pictures for a social studies project. She cut out pages 20, 21, 47, 48, and 104. How many sheets of paper did she remove from the magazine?

Answer: _____

- ★★★ 3. Draw three different ways to put four square tiles together. Each tile must be connected to at least one other tile along an entire side. What is the perimeter of each arrangement? What is the area of each arrangement?



↑
 Drawing 1

perimeter: _____

area: _____ sq units

↑
 Drawing 2

perimeter: _____

area: _____ sq units

↑
 Drawing 3

perimeter: _____

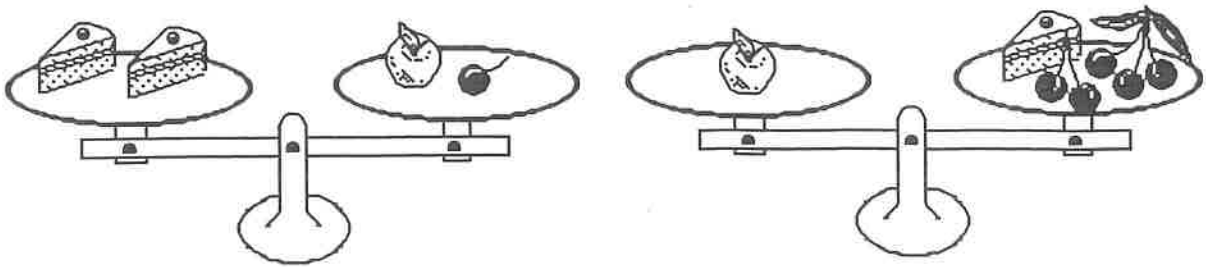
area: _____ sq units

- ★★ 4. Ms. Croskey just put her students in groups of three. Tia, Jonathon, and Courtney are in a group together and are arguing over who is going to sit by whom. How many ways can the three students be arranged in the chairs?



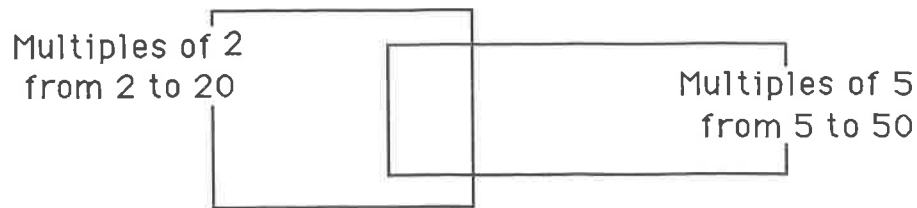
Answer: _____ ways

- ★★★ 5. Two pieces of cake weigh as much as one apple and one cherry. One apple weighs as much as five cherries and one piece of cake. How many cherries weigh as much as one apple?



Answer: ____ cherries = 1 apple

- ★★ 6. Fill in the Venn Diagram to represent the data provided.



- ★★ 7. Find two numbers that add to 19 and multiply to 84.

Answer: _____ and _____

- ★★★ 8. Shirley has 18 coins. One sixth of the coins are quarters, one third of the coins are dimes, and one half of the coins are nickels. What is the value of Shirley's coins?

Answer: _____