SUNSHINE MATH - 5 Saturn, I

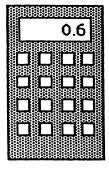
Name:							
	(This	chows	mv	awn	thinking	1	

★★★ 1. A worm is at the bottom of a 10 foot hill. He crawls up the hill $4\frac{1}{2}$ feet a day. At night when he rest he slides down $2\frac{1}{2}$ feet. How long does it take the worm to crawl up the hill? (Hint: Draw a picture.)



Answer: ____ days

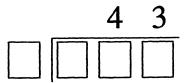
- ★★★ 2. Jennifer was shopping, and using a calculator to find the price of a can of soda. She got the number shown on the display, but didn't know exactly how much money that was. How much money would the can of soda cost? Circle the best answer below.
 - (a) \$6
 - (b) \$.06
 - (c) \$0.60
 - (d) 60¢
 - (e) 0.60¢
 - (f) both (c) and (d) above



★ 3. If the 9th day of a month is on Tuesday, on what day is the 25th?

Answer: _____

 $\star\star\star$ 4. Put one digit from $\{1,0,3,7\}$ in each box to get the correct long division problem.



*	5. Use this calculator in geometry. Circle two sides you could use to draw a set of parallel lines. C = / * 7 8 9 - 4 5 6 + 1 2 3 0 . =	
**	6. Use a ruler and measure the pencil below to the nearest millimeter.	
	Answer:mm	
k★ ★	7. Mrs. Jones had some white paint and some green paint, and a bunch of woo Her class decided to paint the cubes by making each face either solid white o painted his cube with all 6 faces whiteJulie painted her cube solid green. H faces white and 2 faces green. How many cubes could be painted in the fash each cube is different from the others? Two cubes are alike if one can be turn exactly matches, color for color on each side, the other cube.	r green. Juan ector painted 4 ion, so that
	Answer: cubes can be painted so they are different	
*	8. Letia bought a milk shake at the ice cream shop, and gave the clerk a \$10 bi \$9.61 in change. Is this reasonable? Why or why not?	ll. She got
	Answer:	
* *	9. The sum of my two digits is 13. I am not divisible by 2. List all possible no I could be.	umbers
	Answer:	

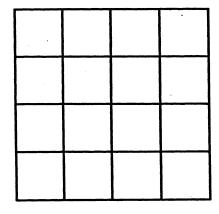
SUNSHINE MATH - 5 Saturn, II

★★★
 Use each of these digits one time in the number sentence below: 2, 4, 6, and 8. Fill in the blanks to produce the answer "14." Remember that you compute inside parentheses first.

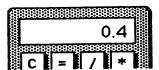
$$(_{--} \div _{--}) + (_{--} x _{--}) = 14$$

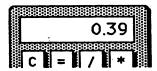
★★ 2. How many squares can be found in the figure to the right?

Answer: ____ squares



★ 3. Tamisha did a problem two different ways on her calculator. She got two different answers. Which of the two answers below represents the largest number? Circle it.





★★ 4. The girl scouts were going on a field trip to the zoo. There are 25 people going. They rented vans and each van has only 7 seat belts. How many vans do they need?

Answer: _____ vans

★ 5. Write the standard numeral: 9000 + 700 + 8 + 0.6 =

- *** 6. What do you know about metrics? Circle the answers below that would make sense.
 - a. The weight of a pineapple:

1 kg

1 g

1 mg

b. The capacity of a can of soda:

35 mL

3.5 mL

350 mL

c. The temperature on a summer day:

30° C

3° C

-3° C

d. The distance from New York to Miami:

2200 cm

2200 km

2200 mm

★★★ 7. A class of 25 students has 10 boys. Three boys have braces and 4 girls have braces.

a. What is the ratio of boys with braces to boys in class?

b. What is the ratio of girls with braces to girls in class?

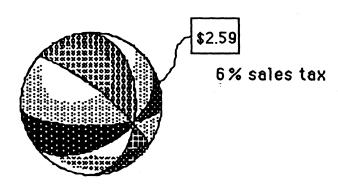
c. Which of the two above ratios is larger?

*** 8. The price and the sales tax are given. Compute the total cost. Tell how much change you would receive from \$5.00.

Answer: _____ Total Cost

Answer: _____Change

Beach Ball



SUNSE	IINE MAT	H -	5
Saturn,	Ш		

Name:		
	(This shows my own thinking.)	

**	1.	Toni works in the school store. She sold 36 notebooks and 42 book covers. The
		notebooks cost \$2.38 each, and the book covers cost \$1.75 each. What is the total cost of
		Toni's sales?

Answer:		

★ 2. A lot of students like to ride horses. Use the chart below to compare the primary grade riders (grades 1-3) with the intermediate grade riders. What is the difference in the number of riders between these two groups?

Horseback Riders

 Answer: _____

Key: Each $\Omega = 3$ students

★★ 3. You have \$100. You spend $\frac{1}{4}$ of your money to buy a new pair of jeans. You want to save $\frac{1}{5}$ of what you have left. How much will you save?

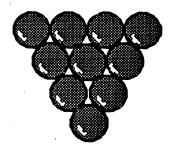
Answer: _____

★★★
 Use these digits only once: 1, 2, 4, and 8. Write a number sentence and use any of the operations (+, -, x, +) as many times as you like. You must get 0 as an answer. Use parentheses if you like.

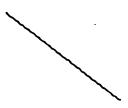
Answer: My number sentence is:

 $\star\star$ 5. Draw all the *lines of symmetry* of the figures below.





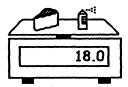
★ 6. Below is a *line of symmetry*. Draw a figure around it for which the line is a *line of symmetry*.



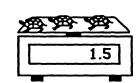
★★★7. Students arrived for school in groups. Bill was the first to arrive--consider him the "first group". Each group that arrived after Bill had two more people than the group that arrived before it. How many people were in school after 20 groups arrived?

Answer: _____

★ 8. How much does the can of paint weigh, by itself? Answer: ____







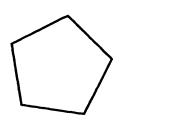
SUNSHINE MATH - 5 Saturn, IV

Name:	
	(This shows my own thinking)

★★ 1. One, three, and six are triangular numbers. List all the other triangular numbers up to 36.



- ★ 2. Jennifer earns \$5.25 an hour. Starting Monday she will get a raise to \$5.85 an hour. She works 40 hours each week. How much more will she make next week than she made last week?
- ★★ 3. A diagonal joins two vertices of a polygon. Draw all the diagonals in the polygon to the right.



Answer: _____

- ★★ 4. Marti plans to save 25% of the money she makes over the summer washing cars.
 - a. Shade in about 25% of the figure to the right to show how much she will save from every dollar she earns.
 - b. How much will Marti save for each car she washes for \$5?



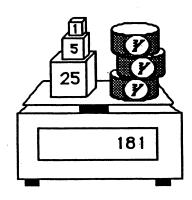
Answer:	
Answer:	

★★ 5. The Phillips family wants to fence their backyard. They know the yard has a perimeter of 24 meters, and an area of 32 square meters. What is the yard's length and width?

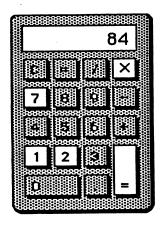
Answers: The length is _____ meters, and the width is _____ meters.

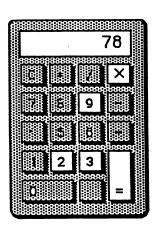
 $\star\star\star$ 6. Y stands for the weight of 1 can of tuna fish on the scale. Find Y.

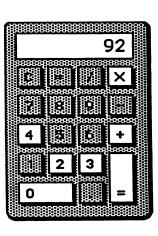
Answer: $Y = \underline{\hspace{1cm}}$



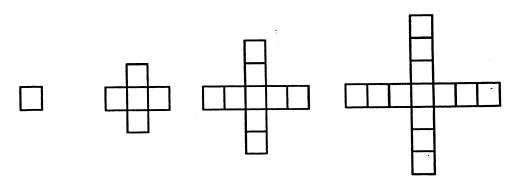
 $\star\star\star$ 7. Write the problems and answers below each calculator:







★★ 8. Look at the pattern below. How many squares would be in the 10th shape in the pattern?



Answer: _____ squares

SUNSH	IINE	MATH	_	5
Saturn,	V			

(This shows my own thinking.)

★★ 1. Big Al has a set of non-metric wrenches that have these numbers on the end:



Which of his wrenches fits the largest nut? Which fits the smallest nut?

Answer:s _____ fits the largest

____ fits the smallest

★★★
 2. Jennifer bought a blender for her mother. The blender was on sale for ¹/₃ off the marked price.
 The regular price of the blender was \$18.00. How much will she pay for the blender, including sales tax of 6%?





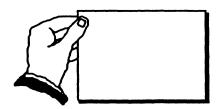
★ 3. Melissa and Sarah arranged the music hall for a concert. They made 42 rows with 35 chairs in each row, and 12 rows with 25 chairs per row. How many chairs did they use in all?

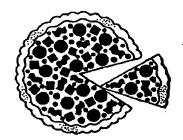
Answer:	chairs
AUSWEL.	LHAIIS

** 4. The "square corners" on a sheet of writing paper are 90 degree angles. You can use these corners to estimate the measure of other angles.

About what is the angle of the piece of pizza being removed in the picture?

Answer: ____ degrees



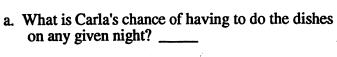


XX	Э.	9.6 inches of rainfall fell. Which month had the most rainfall, and what was the total for the two months?
		Answer: had the most; the total was inches
*	6.	Complete the addition. Convert your answer to largest units. (i.e., change inches into feet and feet into yards, if possible)
		2 yd. 2 ft. 3 in. + 1 yd. 2 ft. 11 in.
***	7.	Eli's Dad made him a birthday cake, but forgot to buy candles. He could only find a few. But Eli was smart in math, so his Dad said "The ratio of candles to years is 3 to 5." That gave him the right number.
		How old was Eli?
***	8.	Kenya, Matt, Tia, and Justin live on the same street. Their houses are gray, green, blue, and white, but not necessarily in that order. Justin lives next door to the grey house. Matt and Justin live across the street from the green house. Tia's house is blue. Circle the one who lives in the white house.
		a. Kenya b. Matt c. Tia d. Justin
***	9.	Answer the questions after studying this pattern. Notice when the pattern starts repeating.
		a. Circle the figure above that would be the same as figure 15 in the pattern.
		b. List the numbers of 5 figures not shown that would be just like number 1:
		c. What is the number of the figure above that is just like the 100th figure in line?

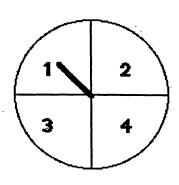
SUNSHINE MATH - 5 Saturn, VI

Name:				····		
	(This	chows	22137	OWN	thinkin	a)

 ★★ 1. The Adams family uses a spinner each night to see who does the dishes. Carla is assigned number 4.



b. What is Carla's chance that she won't have to do the dishes on any given night?



*** 2. Bonita has 6 coins. All of them are pennies or dimes. What are the possible amounts of money she might have?

Answer: She might have $\underline{\hspace{1cm}} \phi, \underline{\hspace{1cm}} \phi, \underline{\hspace{1cm}} \phi, \underline{\hspace{1cm}} \phi, \underline{\hspace{1cm}} \phi, \underline{\hspace{1cm}} \phi$, or $\underline{\hspace{1cm}} \phi$

★★ 3. Compute this answer.

 $8 \times (7.5 + 2\frac{1}{2})$

Answer: _____

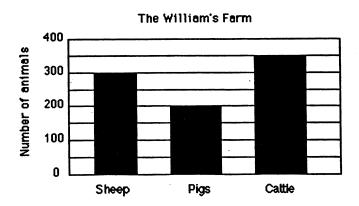
★★ 4. Solve this problem if you have enough information. If there is not enough information tell what you need to know in the space below.

Kimberly orders a sweatshirt. The shirt costs \$25.99 plus the cost for mailing. Kimberly paid with a \$100 bill. How much change did she get back?

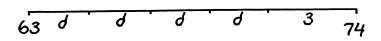
Answer: _____

★ 5. Use a ruler to draw a segment 52mm long, in the space below.

- $\star\star\star$ 6. Use the following graph to answer these questions.
 - a. What is the total number of animals on the Williams' farm?
 - b. What is the difference in the number of cattle and the number of pigs?
 - c. How many more pigs do they need to equal the total number of cattle and sheep?



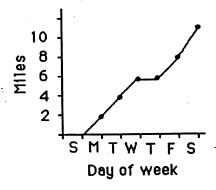
★★★ 7. Maria's bike odometer read 63 miles. She rode her bike to school and back 4 days last week. On Saturday she rode to the park and back, a total distance of 3 miles. At the end of those five trips, her odometer showed 74 miles. Find the distance d from her house to school and back. You can find d by using your number sense and the diagram below.



Answer: $d = \underline{\hspace{1cm}}$ miles

★★ 8. Maria made a graph of the distance she travelled last week on her bike between school and home. Which day of the week did she not ride her bike to school?

Answer:



- ★★ 9. There are 34 classes in a school and each class could have between 23 and 30 children.
 - a) What is the school's highest possible student population?
 - b) What is the school's lowest possible student population?

SUNSHINE MATH - 5 Saturn, VII

Name:						
	(This	shows	my	own	thinking.)	

★★ 1. What is the sum of these mixed numbers?

$$5\frac{2}{3}$$
, $3\frac{3}{4}$, $13\frac{1}{6}$, $8\frac{1}{2}$

Answer:

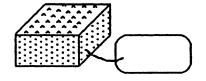
 $\star\star\star$ 2. Artesia found a sale on skates. She got $\frac{1}{5}$ off the regular price of \$34.50. What was the sale price of her skates?

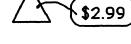
Sale on skates!

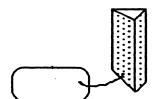
Answer: \$____

*** 3. John needed two more shapes to complete his project. How much will each shape cost? Compute the cost of each shape using the key -- write the cost on each tag.









- $\star\star\star\star$ 4. Put >, <, or = between each pair of numbers.
 - a. $34.63 34\frac{1}{2}$
- b. $3\frac{2}{5}$ _____ $1\frac{12}{5}$
- c. 12.443 _____ 1.2443
- d. 0.09 _____ 0.9

**	5.	Mike and Sam are running a 26 mile They started out at 8:15 a.m They the finish line at 1:26 p.m How lon them to finish the race?	both crossed		-
		Answer: hours and mi	nutes		
***	6.	a. How many \$1 bills are in \$1,000	,000?		
		b. How many \$100 bills are in \$1,0	000,000?		
		c. How many \$1,000 bills are in \$			
***	7.	Find the numbers that each letter star	nds for in the proble	em below.	
		EFGH		E =	
		<u>x 4</u> HGFE		F =	
				G =	
				H =	
*	8.	Jim was putting carpet in his son's to he was having trouble with the multi meters. Do the multiplication to help	plication. The mea	ed to find the area of the floor. Basurements were 4.2 meters by 6.3	ui
			Answer:	meters ²	
**	9	. Rewrite this riddle so it's easily und	erstood.		
		The middle 3/5 of SHOWS. The first 1/3 of DOODLE. The first 3/5 of YOURS. The first 1/2 of KEEPSAKE.	The middle 1/5 of The first 6/6 of The middle 1/2 of The first 8/11 of	URKEY.	-
		Answer: The riddle is:			
		A good answer to the riddle might b	e:		

SUNSHINE MATH - 5 Saturn, VIII

***	1.	Write	true.	sometimes,	or	false

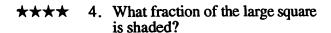
- a. Perpendicular lines intersect.
- b. Two sides of a triangle are parallel.
- c. Two lines that are parallel to the same line are parallel to each other.

$$9 \div (1 + 2) + 9 \div 3 = ?$$

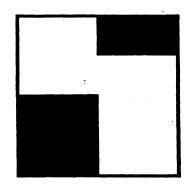
Answer: _____

★ 3. Lisa and Sandy were comparing sticks. Lisa's stick was $\frac{2}{3}$ of a yard long. Sandy's stick was $1\frac{10}{12}$ of a foot long. Who's stick was the longest, and by how much?

Answer: ____ was longer, by _____.



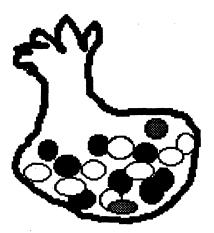
Answer: ____ is shaded



★★ 5. Adrienne left home at 8 a.m.. She arrived in Los Angeles at 1:28 p.m.. Her friend Erica left home at 10 a.m.. She arrived in Los Angeles at 2:45 p.m.. Assume they are in the same time zone the whole trip and both trips take place during the same day. Altogether, how many hours did Adrienne and Erica spend traveling?

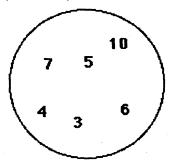
Answer: _____ hours, ____ minutes

★★ 6. Mike had eighteen jellybeans in a bag. 12 of them were green, 1 was blue, 1 was black, 1 was white, 1 was pink, and 2 were orange. If he stuck his hand into the bag without looking, what is the probability of his pulling out an orange jellybean? Write your answer as a fraction.



A			
Answ	er:	 	

 $\star\star\star\star$ 7. Write a number sentence. Use every digit in the circle only once. Insert math symbols (+, -, x, +) and end with the number three. Use parentheses if necessary.



Answer:	=	3
LILO WOL.	_	-

** 8. Joe and Christine each bought a six pack of colas. Joe gave $\frac{2}{3}$ of his away to friends, and Christine gave away $\frac{1}{2}$ as many as Joe. How many more colas did Christine have, than Joe?

Answer: She had ____ more.

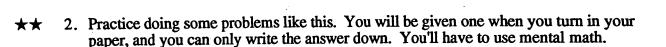
★ 9. Lo Ann's softball team had 16 players. One day it started raining at practice, and all but 5 players squeezed into the refreshment stand, out of the rain. How many were left to get wet?

Answer: ____ were left outside and got wet.

SUNSHINE MATH	_	5
Saturn, IX		

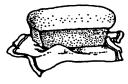
Name:							
	(This	shows	mν	own	thinking	.)	

**	1.	Sandra has eight coins which total \$0.87. or a list.)	What coins does she have?	(Hint:	make a c	hart
		or a list.)				



Answer later:

Lonny has \$15 to buy some groceries for his mom. Milk costs \$2.39, bread costs \$1.29, eggs cost \$0.79, and mayonnaise costs \$2.49. If he buys one of each item, can he expect to get \$10 in change? _____ (yes or no)

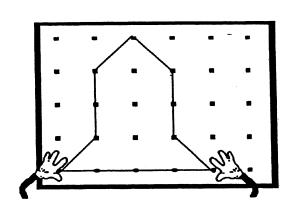


★★ 3. Jack wants to buy an equal number of green, blue and white ornaments for his holiday tree. Green ornaments come in packages of 3; blue ornaments come in packages of 6; the white ones come in packages of 4. What is the least number of packages of each color he must he buy?

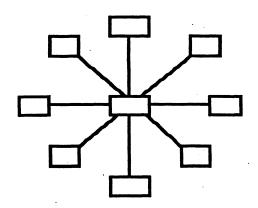
Answers: ____ packages of green ____ packages of blue packages of white

- ★★ 4. Mickey made a space ship on his geoboard.
 - a. Draw any lines of symmetry on the space ship.
 - b. Find the area of the space ship by counting whole and partial square units.

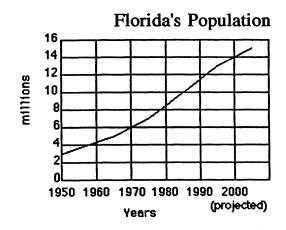
Answer: The area is _____ square units



★★★ 5. Use each digit from 1 to 9 to make each line sum to 15. Use each digit only once.



 $\star\star\star$ 6. Use the graph to answer the questions about Florida's growing population.



- a. What is the increase in population from 1950 to 2000?_____
- b. What was the approximate population in 1980?
- c. At the current rate of increase, what would the population be in 2010?
- $\star\star\star$ 7. Think about these spinners to answer the questions below.
 - a. Put a son the spinner that gives the white team the best chance to win.
 - b. What is the white team's chance of winning on the spinner with $\sqrt{?}$
 - c. What is the chance the white team would <u>not</u> win, on the spinner with √? _____



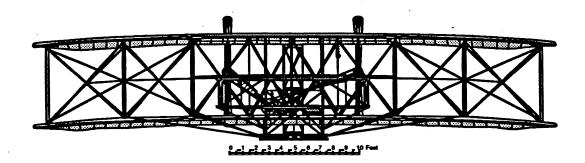
SUNSH	IINE	MATH	-	5
Saturn,	X			

Name:	
	(This shows my own thinking.)

★★ 1. The Wright Brothers each had two flights on that famous day at Kitty Hawk. Orville flew 120 ft. and 585 ft. Wilbur flew 340 ft. and 852 ft. What was the average distance flown that day? At that rate, how many flights would it have taken them to fly a mile? (rounded to the nearest whole number)

Average distance: _____

Flights to travel a mile:



- ★ 2. Use the scale underneath the plane above to find its wingspan, tip to tip. Answer: ____ ft.
- ★★ 3. The regular season for professional baseball is 162 games. A player was at bat 3 times in each game, and he played in $\frac{2}{3}$ of the games.
 - a. How many times was the player at bat during the season?

 Answer:
 - b. The player hit 0.250, which means he got a hit 25% of the time, or once in every four at bats. How many hits did he get during the year?

Answer: _____

- ★★ 4. John needs to build a fence around his yard, which is 96 ft. wide and 120 ft. deep.
 - a. How much fence must be buy to enclose all four sides? Answer:
 - b. If the fence costs \$12.87 for an 8 ft. length, how much will the entire fence cost before the tax is added?

Answer:

★ 5. A bag has 6 marbles in it. Each marble is either red, blue, or green. What is the least number of marbles that you must pull out of the bag to be sure you have two marbles the same color?

Answ	er:		

6. You will be given a problem like the one below when you turn in your paper. To earn your star, you'll have to estimate the answer in your head. Make up and practice some problems like this

Answer later: __

The store where Janice and Kanisha shop is having a sale on summer clothes. Each of the girls wants to buy 2 pairs of shorts and three tops. If shorts and tops are on sale for \$11.50 each, what is the best estimate of how much each girl will spend? Circle your answer.

\$40

b. \$50

c. \$60

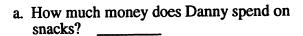
d. \$120

7. What whole number does N stand for if the number sentence below is true?

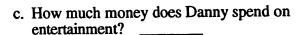
$$(N+5)+(3 \times 2) = 18$$

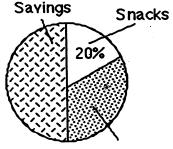
Answer : _____

8. Danny earns \$5 a week. Use the graph to answer the questions below.



b. How much money does Danny save? _





Entertainment

- 9. Franklin School has 3 boys for every 4 girls in the fifth grade. There are 140 students in the fifth grade.
 - a. How many are boys? _____ b. How many are girls? _____

SUNSHINE MATH - 5 Saturn, XI

Name:	•
	(This shows my own thinking)

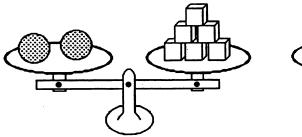
**	1.	Jacqueline, Kanisha, Howard, and Billy have jobs in their group. The jobs are Recorder,
		Materials Manager, Time Keeper, and Reporter. Kanisha sits across from the Recorder and next to
		the Materials Manager. Billy hurt his hand and cannot record the work done. Jacqueline is best
		friends with the Reporter, and lives down the street from the Recorder. Billy rides the bus with
		both the Materials Manager and the Reporter. What is the task of each student?

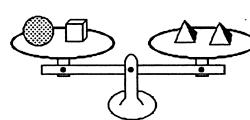
Recorder	Materials Manager
Time Keeper	Reporter

- ★★ 2. A sheet of plywood measures 4 feet by 8 feet. Armand wants to build a dog house using one whole sheet of plywood for the floor.
 - a. Armand needs to put a "2 by 4" under the outer edge all the way around the floor, and another "2 by 4" that runs down the middle lengthwise, to give support to the plywood. If "2 by 4's" are sold in 8-foot lengths, how many should he buy?
 - b. If he carpets the floor also, how many square feet of carpet should he buy?
- ** 3. Pine Elementary School Chorus needs tapes to record their musical for the members. Tapes cost \$7.95 for a package of 2 tapes and \$11.75 for a package of 3 tapes. If 23 members want copies of the tape, what is the least amount they will have to spend?

Answer:

★★★ 4. If each sphere has a mass of 120 gms, what is the mass of a pyramid? _____ gms





★★ 5. Sunny Ridge Elementary School was collecting cans for a food drive. The first two days of the drive, they collected 103 cans. They collected 5 cans more on the first day than on the second day. How many cans did they collect each day?

Answer: _____ 1st day _____ 2nd day

★ 6. Josie found a pair of shoes she wanted priced at \$55, but she did not want to pay that much. A few weeks later, the same shoes were marked down 20%. Including the 6% sales tax, how much will she pay if she buys the shoes on sale?

Answer:



★★★
 7. People who learn to multiply mentally usually do the opposite of what they do with paper-and-pencil. They start multiplying the "big numbers" first, and then add on the product of the smaller numbers. Watch James below:

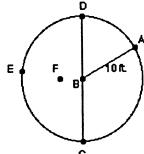


To multiply 63 X 45, first multiply 60 X 40 to get 2400. Then add on 60 X 5 or 300, and you have 2700. Then add on 3 X 40 or 120, and you're up to 2820. Next add 3 X 5 or 15, and you have 2835. So 63 X 45 is 2835.

Practice multiplying this way with 2-digit by 2-digit multiplication problems that you make up. When you turn in your paper, you can earn 4 stars by doing a problem like this.

Answer later:

** 8. Circle the best answer for the length of each line segment.



FE 12 ft. 10 ft. 8 ft.

CD 15 ft. 30 ft. 20 ft.

BF 5 ft. 4 ft. 1 ft.

SUNSHINE MATH - 5 Saturn, XII

Name:	,	·
	(This shows my own th	inking.)

1. Bob's garden is a 20 ft. x 10 ft. rectangle. Bob plants tomatoes in half of his garden; then radishes in $\frac{1}{4}$ of the remainder; then cucumbers in $\frac{1}{2}$ of what is left. The last area is planted in peppers. What part of the garden is planted in peppers?

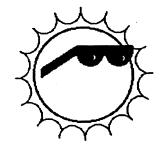
(Hint: draw a picture)

Ancide .	
Answer:	

2. St. Augustine was founded in 1565 by Pedro Menendez de Aviles. The oldest house in that city still standing was built in 1703. How old is this house now?

Answer:

3. For your weekend at the beach, you have packed one pair each of red shorts, blue shorts, and tan shorts. You have also packed a white shirt, and a red shirt. How many outfits can you make with these clothes?



Answer:

4. A number n is divided by 3 and the result is multiplied by 7. Then 6 is subtracted from the result to give 36. What is the original number n?

 $[(n \div 3) \times 7] - 6$ gives 36. What is n?

Answer: n =

5. Which fraction is closest in value to 1? Circle the correct answer.

- a. $\frac{3}{5}$ b. $\frac{2}{3}$ c. $\frac{1}{2}$ d. $\frac{7}{10}$

**	6.	There are 5,280 feet in a mile. If an airplane is flying at 35,000 feet above sea level, how high is it? Bubble in the correct choice.
		 7 miles high a little less than 7 miles high a little more than 7 miles high
* ★	7.	Juan entered a bike race in which he was to ride 45 miles, stopping at certain intervals during the race to check in with the scorers. He checked in 9 times before he crossed the finish line. If the intervals were equally spaced throughout the race, how far apart were they?
		Answer: The intervals were spaced every miles.
***	8.	The graph shows Juan's speed during the race, not counting when he stops at the checkpoints. Answer the questions below the graph.
		0 1 2 3 Time in hours
		a. About how long did Juan take to finish the race? Answer:
÷		b. What can you say about Juan's speed during the first half hour of the race? Answer:
		c. What can you say about Juan's speed during the second half hour of the race?
		Answer:
		d. During what part of the race was Juan going the fastest?
		Answer:

SUNSHINE MATH - 5 Saturn, XIII

Name:						
	(This	shows	my	own	thinking.))

*	1.	Mr. McMathy needs 129 seats for his 5th grade program. If the seats are arranged in rows of 10 seats, how many rows will he need?
		Answer:rows
***	2.	In the United States, 154,000,000 tons of garbage are produced annually. On an average, about how many pounds is that each month for each person in the United States? The population of the United States is about 250 million.
		Answer: pounds
***	3.	The horizontal, vertical, and diagonal columns of a magic square all add to the same sum. Use the digits 1 - 9 one time each to make a magic square.
***	4.	A square number is a number in which the dots can be arranged to form a square. • • • • • • • • • • • • • • • • • • •
		1 4 9 16 -
		a. Find the next three square numbers.
		b. Is 100 a square number?
		c. Is 200 a square number?
**	5	. How many different rectangles exist which have whole numbers as the length and width, and also have an area of 36 sq. cm?
		Answer: rectangles

- ★★★ 6. You offer to do the dishes for your family for the next month. You suggest that they can pay you in one of three ways:
 - a. \$0.50 each day.
 - b. \$0.10 the first day, \$0.20, \$0.30 the 3rd day, and so on.
 - c. \$0.01 the first day, \$0.02 the second day, \$0.04 the third day, and so on, doubling every day.

If the month has 31 days, which rate of pay would be best for you? Circle your choice.

- ★★ 7. You place these cards in a bag, and choose one without looking.
 - a. What is the chance you will pull out a red card?



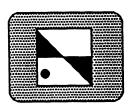
Answer:

b. What is the chance you will pull out a \(\frac{1}{2} ? \)

Answer: ____

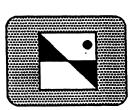
★★ 8. Marcia drew the design to the right on a piece of clear plastic. She turned it 90° clockwise, then flipped it over horizontally and flipped it again vertically. Which is her card below? Circle it.











 \star 9. Find the product: 5.7 x 17.3 x 651 x 387 x 0 x 82.1 = _____

SUNSHINE MATH - 5 Saturn, XIV

Name: _____ (This shows my own thinking.)

★★★ 1. Complete each sentence by drawing a picture in the space beside it.





★ 2. Fill in the missing fractions. The same fraction is used in both spaces.

$$(\frac{4}{8} -) + (\frac{5}{8} -) = \frac{7}{8}$$

★ 3. Solve if there is enough information. If not, tell what is missing. Becky bought a pack of paper that cost \$5.95. Tony bought a pack that cost \$6.49. Who bought the most paper?

A	
Answer:	

*** 4. Maria works at the community relief center every summer. She is a really good worker. She earns \$8.00 per hour for her regular 40-hours a week. Last week she worked 47 hours. How much did Maria earn if she gets "time and a half" for overtime?

Answer: ____



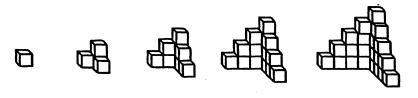
 $\star\star\star$ 5. Complete the chart below. Each of the three students earns \$5.75 per hour.

Employee work schedule and amount earned

Employee	I n	Out	Hours	Amt. Earned
Bachie	8:00 A.M.	6:00 P.M.		
Dustin	12:30 P.M.	5:00 P.M.		
Monica	9:00 A.M.	5:30 P.M.		·

Bldg. 4

★★★ 6. This pattern of buildings is made with blocks. Building 1 is made from 1 block, Building 2 from 4 blocks, and so on.



a. How many blocks are needed for Building 3?

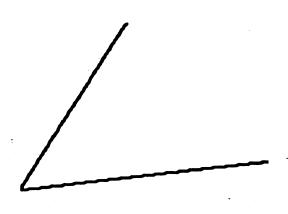
Bldg. 3

b. How many blocks are needed for Building 4?

Bldg. 2

- d. How many blocks for Building n, where n could stand for any number?
- ★ 7. Fold this sheet of paper so that you bisect the angle. Bisect means that you exactly cut it in half. With your pencil, darken-in the crease in the paper. The line you draw is the bisector of the angle.

Bldg. 1



Bldg. 5

Bldg. 6

 $\star\star\star$ 8. Open a book and look at the two page numbers.

- a. Is their sum an even number, or an odd number?
- b. Is their product an even number, or an odd number?
- c. If you opened the book to two different pages, would your answers to (a) and (b) be the same? _____

SUNSHINE MATH - 5 Saturn, XV

Name: _____ (This shows my own thinking.)

★★ 1. Ms. Hill and Mr. Booth both had \$500 to invest in the stock market. Ms. Hill bought shares of Sugarloaf at \$10 per share while Mr. Booth bought shares of Dandy's Butter at \$20 per share. Ms. Hill's shares went up in value \$0.20 per share. Mr. Booth's shares went up \$0.50 per share. How much did each earn on their shares?



Answers:

Ms. Hill \$_____

Mr. Booth \$_____

★★★ 2. Tiffany has \$20 more that Ivan. Travis has \$20. All three together have \$41.

How much money does Tiffany have? _____ How much does Ivan have? _____

★ 3. What number do you need to add to these numbers to get 1000? Try solving these in your head. Then practice some more like these that you make up. Use your BRAIN POWER. When you turn in your paper you will be asked to solve a problem like these in your head.

a.
$$300 + \underline{} = 1000$$

b.
$$210 + ___ = 1000$$

c.
$$450 + \underline{\hspace{1cm}} = 1000$$

d.
$$636 + \underline{} = 1000$$

Answer for the problem given when you turn in your paper:_____

★★★
 4. You are having a pool party and invite 2 of your best friends. These two friends each invite 2 other people. These 2 people each invite 2 people that have not been invited. How many people will be invited if this process continues for 4 rounds? (Hint: Draw a diagram.)

Y'all come my party

Answer: ____ people

5. Which equation has the same solution as the first equation? Circle it.

$$n + 13 = 21$$

a.
$$t - 13 = 21$$

b.
$$17 = 25 - p$$

a.
$$t - 13 = 21$$
 b. $17 = 25 - p$ c. $9 + d = 16$

6. A box will hold 23 puzzles. How many boxes are needed to hold 238 puzzles?

Answer: _____ boxes

7. A jacket Jason wants is priced at \$18.99. The sales tax is 8%. What is the total cost of the jacket, including tax?

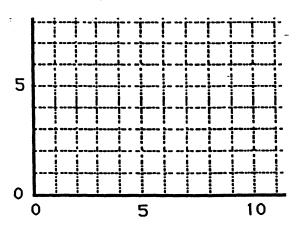
Answer: \$

8. Write the correct numbers in the boxes:

- 9. Connect the points with a heavy line as described below.
 - a. Connect (10, 1) to (10, 7)

 - b. Connect (2, 1) to (5, 1)c. Connect (7, 4) to (10, 4)

 - d. Connect (7, 7) to (7, 1) e. Connect (2, 7) to (5, 7)
 - f. Connect (3.5, 1) to (3.5, 7)

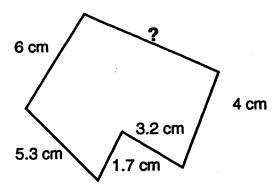


SUNSHINE MATH - 5 Saturn, XVI

Name:

(This shows my own thinking.)

★★ 1. Find the missing measurement. The total perimeter of the polygon is 27 cm.



Answer: cm

★★ 2. Fill the missing numbers in the division problem.

3	3	<u> </u>	
			1
		9	1
			0

*** 3. When you divide, you sometimes get a larger number than you started with. Show you understand this by placing the decimals in the answers below. The answers are correct, except for the decimal point not being there.

a.
$$1.25 + 0.5 = 250$$

b.
$$0.84 + 0.7 = 120$$

c.
$$13 + 0.1 = 1300$$

★★ 4. Report cards are coming out in three days. Your homework grades are 100, 90, 85, 78, 0, 80, and 92. The 0 occurred when you forgot to do your homework one night. What is the average of your homework grades?

Answer:____

**	5.	Using the grades from problem 4, what would your average be if you had done your homework that night, and made a 77 instead of a 0?
		Answer:
****	6.	Write an algebraic expression for each phrase below. Use the variable suggested.
		a. twice as old as Max's age a, less three years
		b. 10 times higher than the chair's height h, plus 3 inches
		c. \$3 more than half of what Jason makes d
		d. five trips of x miles each, plus another 5.8 miles
**	7.	Kalia skateboards 5 blocks west and 8 blocks north to get to her friend's house. Each block is $\frac{1}{8}$ mile in length.
		a. How far does she travel in a round trip? miles
		b. Rounded to the nearest whole mile, how far is a round trip? miles
*	8.	Bailey has physical education class $1\frac{1}{4}$ hours on Monday, Wednesday, and Friday. How many minutes does he get physically educated each week?
		Answer:minutes
***	9	Box A has 3 black marbles and 2 white marbles. Box B has 2 black marbles and 1 white marble.
		If you have to close your eyes and pick a black marble to win a prize, which box gives you the best chance of winning? Bubble-in your answer.
		0 Box A gives the best chance.
		0 Box B gives the best chance.
		O The boxes give the same chance of winning.

SUNSHINE MATH - 5 Saturn, XVII

Name:		
	(This shows my own thinking)	

		2 10678	3 2145	5 2540	6 12018	4 2128	7 4949	-
		4 · · · ·		An	swer later:	-		
**	2.	gas his first about this n he spend on answer to th	week. If he do		ths using ch would			
*	3.	These numb	pers are examp	les of palindron	nic numbers.	• .		
			232	11	505	325523		
		Find four of	her numbers th	nat are palindro	mic.			
		Ans	wer:			.,		
*	4.	What do the	numbers abov	e have in comr	non with this se	ntence?		
			A man, a pl	an, a canal, Pa	nama!		-	
		•	Ans	swer:				
**	5.	This means	that, for an ave	erage person yo	ate of 70 beats pour age, the hear learest hundred	t has already be	is ten years o eat about ho	old. w
				Answer: _				

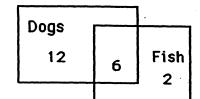
***	6.	Marcus noticed that at 3:00 o'clock, the hour and minute hands on his watch made a right angle. He was curious about the angles formed inside the right angle, when the second hand was pointing at the 2:00 o'clock marker. What two angles would this make inside the right angle?
		Answer: degrees and degrees
***	7.	On a 12-digit calculator, 3 + 7 will give the answer shown. The calculator can't show the division process any farther. But the digits continue to repeat in this manner. a. What will the 13th digit be? b. What will the 14th digit be? c. What will the 100th digit be?
**	7.	When Bonita makes a fruit salad, she always uses oranges and watermelons. This time sh has 11 pieces of fruit. If she uses at least one of each and more oranges than watermelons show all possible combinations by filling in the chart below. Oranges Watermelons
***	8.	A bracelet cost \$33.50. The earrings cost \$12.65. How much does it cost to purchase the set if you get 10% off for buying both, and the sales tax is 6%?

Answer: \$_

SUNSHINE MATH - 5 Saturn, XVIII

Name:		
	(This shows my own thi	inkino)

★★ 1. In the third grade, some students have pets that are dogs, some have fish, and some have both. Use the Venn diagram to answer the questions.



- a. How many students have fish? __
- b. How many students have fish and a dog?_____
- ★★ 2. You ran 1.5 miles before you decided you were running in the wrong direction. You turned around and ran back to where you started. Then you ran 2.75 miles in the other direction. How many miles did you run in all?

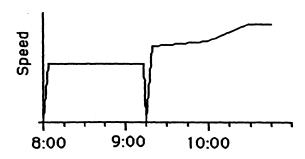
Answer: miles

★★ 3. It takes about 735 turns of an average 5th grader's bicycle tire to go 1 mile. To the nearest thousand, how many times would your tire turn around if you biked beside the runners in a 26-mile marathon?



Answer: _____ turns

- ** 4. The graph below shows what a bicycle's speed might look like for a 26-mile marathon. The race started at 8:00 AM. Answer these questions about the graph.
 - a. How long did the race last? ____ hours and ____ minutes
 - b. At what time did the rider stop to get water? ____ A.M.
 - c. What is happening to the rider's speed between 10:00 and 10:30?



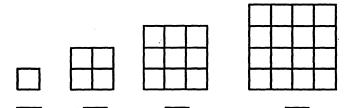
***	5.	Mrs. Jones' science class had to record the total amount of rain that fell the last week of school. It rained 1.66 inches on Monday, 0.23 inches on Tuesday, 0.76 inches on Wednesday, 1.2 inches on Thursday, and the skies were clear on Friday. What was the average amount of rain that fell daily from Monday to Friday? Round your answer to the nearest hundredth.
		Answer: inches
*	6.	Take a sheet of paper and fold it in half, fold it again, fold it again, fold it again, and then fold it again in half. If you opened the paper, how many sections would you have?
		Answer: sections
**	7.	During the summer, Julio promised his Dad he would read 3 novels every 2 weeks. How many novels would that be during the 3 months of summer? (use 12 weeks for 3 months)
		Answer:
**	8.	Write two numbers in the spaces below to show what the two "tick marks" stand for on the number line, between 3 and 4.
		3 4
**	9.	Mary had 10 yards 2 feet of ribbon. She needed to cut pieces for her 3 friends. If each friend got the same amount of ribbon, how much did each get? In your answer, there cannot be more than 12 inches
		Answer: yards, foot, inches
		· J J

(Note: in your answer, inches must be converted to feet, if possible, and feet to yards.)

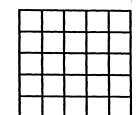
SUNSHINE MATH - 5 Saturn, XIX

Name:						
	(This	shows	mv own	thinking.)	

*** 1. How many different squares are in each figure? Count the smallest squares first, then move up to the next size, and so on. Record the total number of squares below each figure and look for a pattern.

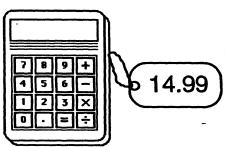


★★ 2. Herman thought he noticed a pattern to the problem above. The total number of squares is always the sum of the square numbers up to the figure number. For the 3rd figure, for example, the total number of squares is 14, which is also 1² + 2² + 3².



- a. Does this pattern work for the next figure, the 5th?
- b. What is the total number of squares in the 10th figure?
- ★ 3. Aki bought a new calculator for school. What is the cost of the calculator including sales tax of 6%? Round your answer up to the next cent, as a store would.

Answer: ____



★★★ 4. Complete the chart below by putting a check in each column by which the number is divisible. You may have more than one number checked in each row or column. The first one is started for you.

		2	3	4	5
a.	6,945		V		
b.	1,236,240				
C.	54,208				

★ 5. Draw the other half of the shape to make it symmetrical. If it helps you, fold the page along the vertical *line of symmetry*, hold it up to the light, and trace.



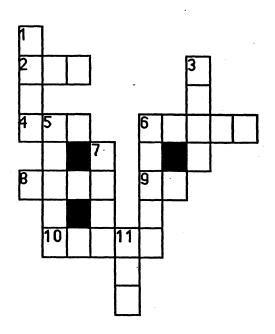
 $\star\star\star\star$ 6. Complete the crossnumber puzzle.

DOWN

- 1. (28 X 126) 21
- 3. ? + 716 = 4220
- 5. 6521 + 9963 12321 + 42896 + 30286
- 6. (364 X 265) 41282
- 7. Average of 4728, 9630, 7465, and 725
- 11. $\sqrt{100489}$



- 2. 6000 ? = 5486
- 4. 280644 + (300 + 64)
- $6. 35^3 + 100^2 + 170$
- 8. $3 \times 10^3 + 3 \times 10^2 + 7 \times 10^1 + 6 \times 10^0$
- 9. Age the second year as a teenager
- 10. $\{[(238 + 14) + 20] \times 1560\} + 18$



★★★ 7. This weird kid from another planet multiplies differently from us! She gets the right answer, but her work doesn't look like anyone else's in class. Here's what she does:



Given:	Multiply 2 X 38:	Multiply 40 X 38:	Add:
42	42	42	42
<u> </u>	<u>x 3 8</u>	<u> X 3 8</u>	<u> </u>
	76	76	
		1520	<u>+1520</u>
			1596
ł			

 Do these problems
 1 4
 3 1
 2 7
 6 2

 this way:
 X 2 6
 X 5 3
 X 4 2
 X 1 3 5

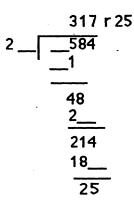
SUNSHINE MATH - 5 Saturn, XX

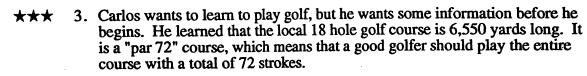
Name:	
	(This shows my own thinking.)

***	1.	A perfect number is one which is the sum of its proper divisors. Six is the smallest perfect	ct
		number: $6 = 3 + 2 + 1$. The next smallest perfect number is between 20 and 30. Find it!	

_		
Answer	٠	
	٠	

★★ 2. Find the missing digits in this problem.







- a. What is the average distance (rounded off) for each hole?
- b. What is the average number of strokes required per hole?
- c. For his first round, Carlos scored 108. How many strokes over par was he?
- ★ 4. A can of soda contains approximately? (circle the best answer)

350 ℓ

350 mℓ

350 cℓ

★★★
 Shomika was helping her family pick oranges in their grove. She took some oranges home to share with three friends. She gave 3 more than half to Jennifer. Angela got half of the remainder and 3 more. She gave Josie half of the remainder plus 3. When she got home, she only had 10 oranges left. How many did she have when she left the grove?

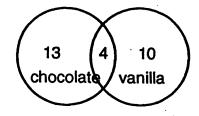
Answer	•
Allawia	_

★ 6. Solve this problem:

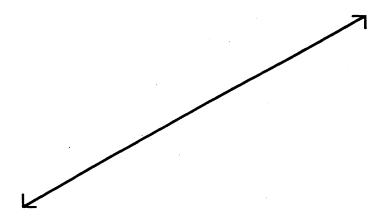
$$3 \times (8+6) - 8 = Y$$

Answer: Y =

★★ 7. Joann's class is planning a math celebration after half the class scores at least 100 stars in Sunshine Math Superstars. She surveyed the class to find out how many like chocolate cupcakes and how many like vanilla cupcakes. She organized the information to give to her mom, who is going to do the baking. Her results are shown to the right:



- a. How many students were surveyed? ____
- b. What percent (rounded to the nearest whole percent) like chocolate cupcakes? _____%
- * 8. Fold your paper to show a line that is perpendicular to the one below.



★ 9. Five fifth graders decided to clean up their community on Earth Day. Armed with dozens of garbage bags, they began work at 8:30 AM. They took two 15 minute breaks and a half-hour lunch break. When they had worked 5 hours, they knew it was time to go home. What time did they quit working?

Answer: _____

** 10. 3 weeks, 4 days, 13 hours, 21 minutes

- 1 week, 5 days, 18 hours, 30 minutes

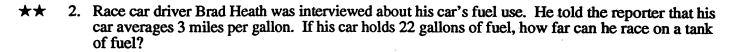
week, days, hours, minutes

SUNSHINE MATH - 5 Saturn, XXI

Name:				
			•	
	(This shows my own	thinking.)	

***	1.	Use the numbers 1, 2, and 4 to make the numbers from 1 to 9. Use each of the three numbers only	V
		once and use only the four arithmetic operations. The first one is done for you.	•

Example: 4 - 2 - 1 = 1 = 4 = 7 = 2 = 5 = 8



Racing fuel costs \$3.40 per gallon.
How much does the tank of fuel cost?

Answer: mi.



Answer : _____

★★ 3. Jan's class is entering a contest. The winner will receive tickets for the student and parents to visit the city of their choice. Jan lives in Buffalo, NY, so she would travel from New York. The distance in miles from New York to four European cities is given to the right.

Berlin	3,965
London	3,458
Paris	3,624
Moscow	4,665

a. What is the difference between the nearest and farthest European cities?

Answer: _____ miles

b. Jan's mother flies to Paris and back to New York once every month. How many miles does she fly each year? (Round to nearest 1000 miles.)

Answer: ____ miles

★ 4. One acre of land will grow 11,000 heads of lettuce. If a farmer has 1,500 acres of land and he plants lettuce on half of his farm, how many heads of lettuce can he expect to grow?

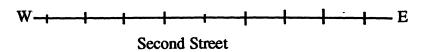
Answer: ____ heads

★★★ 5. Harry and William bought a pizza for \$8.99. Harry ate five pieces and William ate 3. Based on how much each one ate, how much should each pay?

Answer: Harry should pay _____; William should pay _____



★★ 6. Use the clues to locate these points on Second Street.



The antique store, A, is at the midpoint (middle) of the street.

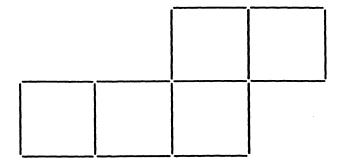
The museum, M, is 2 cm. west of the restaurant.

The restaurant, R, is 4 cm. east of the antique store.

The gift store, G, is 8 cm. west of the restaurant.

The theater, T, is halfway between the antique store and the museum.

★★★ 7. Draw arrows to show how to rearrange exactly 2 of these toothpicks so that you will have 4 squares instead of 5. Each square is to be the same size as the ones shown.



*** 8. How much change will I get back from a \$5 bill if I buy three pairs of socks selling as advertised? Sales tax is 6%.

Answer:

SALE!!
Socks2 pairs for \$1.98

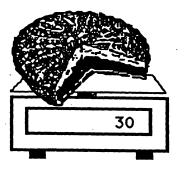
★ 9. $\frac{3}{4} + \frac{1}{2} + \frac{5}{6} - \frac{1}{3} + \frac{7}{12} =$ [Be careful - $\frac{1}{3}$ is being subtracted!)

SUNSHINE MATH - 5 Saturn, XXII

Name:			
	(This shows my own thinking	1	4,

★ 1. Let p stand for the weight of a whole pie. The equation $\frac{3}{4}p = 30$ shows the situation on the scale. How much did the whole pie weigh? Use your number sense.

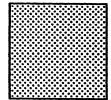
Answer: p =



 $\star\star\star$ 2. A square inch is shown to the right.

Bubble-in the best estimate below of the area, in square inches, of this sheet of paper.

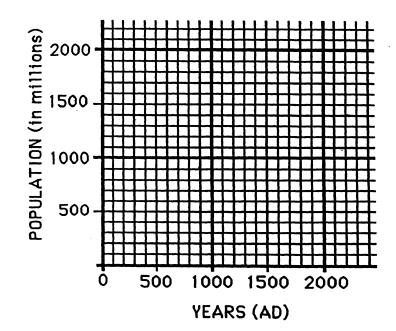
- $0 50 \text{ in}^2 0 90 \text{ in}^2$
- $0 125 \text{ in}^2 0 150 \text{ in}^2$



★★ 3. Make a line graph of the world population figures shown below. Use the graph paper to the right. Then answer this question: If the population continues to increase as the graph shows, what will it be in 2000 AD?

World Population

Year (AD):	Population (millions):
1	300
1000	350
1600	450
1700	700
1800	1,000
1900	1,700
22 00	_,, ~ ~ ~



★★★ 4. A machine changes the first number into the second number. Study the pattern and predict the rule the machine uses to change one number into another.

-			
1	fl	7	
2	fl	10	
1 2 3	fi	13	
•	• ,	•	
•		•	
10	fl	34	
•	•	•	
100	fi	304	

a.	What	will t	he	machine	produce	for	40?	
----	------	--------	----	---------	---------	-----	-----	--

d. Describe the way the machine changes a number n:

3	

★★ 5. There are about 3,400 species of frogs and toads, and scientists tell us that they represent 90% of the amphibians in the world. Using this information, what is the total number of amphibian species scientists believe are in the world. (Round your answer to the nearest 100.)

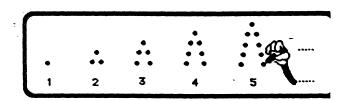
Answer	•	
THISACT	•	

★ 6. Suzanne ordered a sandwich and a soda. The total, plus tax, came to \$4.76. Suzanne gave the clerk \$5.01. What is a good reason for Suzanne to give the clerk the extra penny?

Amorrom	
Answer:	

 $\star\star$ 7. The missing digits for this problem are 0, 2, 4, 6, and 8. Put them in their correct boxes.

- $\star\star\star$ 8. Draw this pattern on scratch paper.
 - a. How many dots in the next 3 figures?
 _____, and _____



- b. How many dots for the 50th figure?____
- c. How many dots for the 1000th figure?

SUNSHINE MATH - 5 Saturn, XXIII

Name:

(This shows my own thinking.)

1. Laquinda and her 2 friends wanted a pizza after school. They did not have enough money, but Laquinda's mother promised to give them what they needed once they put their money together. Laquinda had \$2.45; one friend had \$3.72; the other friend had \$0.87. How much did Laquinda's mother have to pay for the pizza if the total cost was \$9.95?

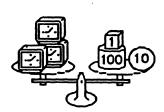


Answer:

2. Use number sense to solve each equation. Find out what a single object weighs.



A piece of cake weighs: x + 2 = 28



A clock weighs: 3y = 111y =



A coin weighs: 4z + 5 = 41.8

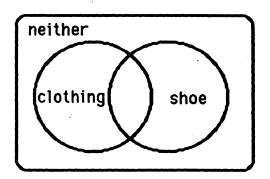
- 3. Circle the best estimate below for the sum of $13\frac{38}{39}$, $7\frac{16}{17}$, $4\frac{1}{9}$, and $4\frac{1}{42}$.
 - a. 28
- b. 30 c. $28\frac{23}{46}$
- d. 20
- 4. Raoul's "school days" picture was accidentally made with a grid behind it. Estimate the area of the part of his body that is showing. Circle the best estimate below.



b. 50 sq. units d. 80 sq. units



★★ 5. 100 adult customers were surveyed to determine which type of shop in the mall -- clothing store or shoe store -- they liked best. Forty-seven liked clothing stores best. Twenty-three preferred shoe stores. Fourteen liked both equally well. The rest did not like either type of store. Write 4 numbers in the appropriate section of the Venn diagram below to show these statistics.



★ 6. Space shuttle Atlantis has traveled a distance of 2,000 miles one and a half minutes into its flight. If it continues to travel at this speed, how far will it have traveled in six minutes?

Answer: _____ miles



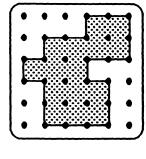
★★ 7. Joseph has a nickel and a penny in one pocket and two nickels and two pennies in the other pocket. Which pocket gives him the better chance of pulling out a penny?

Answer : _____

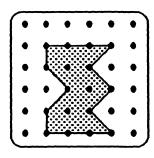
★ 8. Betty Jean has 18 coins. One sixth of the coins are quarters, one third of the coins are dimes, and one half of the coins are nickels. What is the value of Betty Jean's coins?

Answer: \$_____

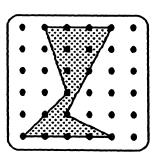
 $\star\star\star$ 9. Write the area of each geoboard figure on the line below the figure.



area = ____



area = ____



area = ____

SUNSHINE MATH - 5 Saturn, XXIV

Name:							 _
	(This	chause	20137	01479	thinking	1	

★★ 1. There were 22,600 tickets sold for the Magic's first game. 4,800 fewer people showed up for the second game. If tickets were \$25 each, how much money was brought in by the two games?

A		
Answer:		

- *** 2. Marshall makes \$20,000 a year. His budget is shown to the right.
 - a. What is the sum of the percents on the graph?
 - b. Does Marshall spend more money on education or on food? _____
 - c. How much money does he spend on his car?
 - d. What is the total amount of money Marshall spends on clothing, entertainment, and savings?



★★ 3. Juanita could not see the classroom clock hung on the back wall of the room without turning around in her seat. But one day she discovered that she could see it by using the mirror in her purse. If this is what she saw, what time was it?



Answer: _____

★ 4. Emily and Morris were discussing how fast a baseball travels. They asked Emily's Dad to hit a ball. The machine measured the ball's speed at 98.70465 miles per hour. Round this speed to the nearest hundredth mile per hour.

Answer: ____ mph



444	5	Write an algebraic exp	angesian far	each cituatio	n halow neine	n the veriable a	ivan
***	J.		•		_	; the variable g	iven.
		a. three times as high			r, plus 2 leet:		<u>.</u>
		b. \$100, less twice 7	Taria's mone	y saved, s:			
		c. one-half of Marcia	a's time, t, le	ess 2 minutes	S:		
**	6.	Patti helped her Mom about how many bric Circle the best estima left over for breakage	ks they sho te below, to	uld order.			
		a. 800	b.	600	**************************************		
		c. 1000	d.	700	a Victor and Andrea		
						401	rea e
**	7.	Spring is the time for snorkeling around the Circle the temperature the most.	beach area	at Panama Č	Lity.		
		a. 0°C	b.	25°C			
		c. 50°F	d.	80°C			
***	8.	A man has a goose, a comes to a river, but the man and one other	there is only	one boat av	ailable for cro	ing through the ssing. The boa	e woods. He at will only hold
	•	The man can't leave t goose. He can't leave					
		What's the fewest nu other side? (A cross					

Answer: ____ crossings

(Hint: draw a diagram.)

SUNSHINE MATH - 5 Saturn, XXV

Name:		_
	/m · · · · · · · · · · · · · · · · · · ·	•
	(This chave my our thinking)	

**	1. The Drew Elementary School softball team needs bats and mitts for their team. If bats cost \$12 and mitts cost \$15,
	what is the greatest number of items they can buy for \$200 if
	they buy at least one of each?

SALE!					
Bats	\$12				
Mitts	\$15				

2. The numerator and denominator of a fraction are single digits which total 13. When you divide the numerator by the denominator, the answer is 0.86 rounded to the nearest hundredth. What is the fraction?

Answer:___

3. Use the menu to answer the questions.

Hamburger	\$1.49	Hot Dog	\$1.25
	<u>Small</u>	<u>Large</u>	
Fries	\$.75	\$.95	
Cola	.79	.99	
Shake	1.25	1.75	

a. If you buy a hamburger, small fries, and small cola, what will your bill be after adding the 7% sales tax? (Remember, stores will round any part of a cent up!)

Anguer	•	
Answer	٠	

b. If you give your server \$5.00, how much change will you receive?

Answer	•	
UTIOMOL	•	

c. If you had \$2, what combinations of food would you be able to buy with no items the same, if your friend agrees to pay the tax for you?

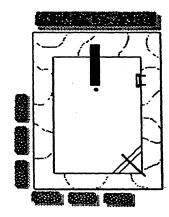
Answer:	

- ★ 4. Elvira was solving a complicated math problem. In her last step she divided by 5 and got the answer 13. Then she realized she should have multiplied by 5 instead of dividing by 5. What should her answer really have been?
- ★★★ 5. Mason was told by the vet to keep up with the weight of his 6 pups, which all looked alike. He weighed them by putting them all in a wooden box and weighing them together -- the scale showed 50 pounds. Then he weighed the box by itself -- it weighed 8 pounds. Answer the questions about Mason's equation for finding out how much each pup weighed.

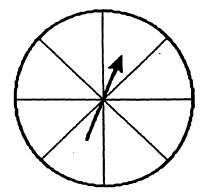


Equation: $6 \times W + 8 = 50$

- a. What does W stand for in the problem?
- b. Why is W multiplied by 6 in the equation?
- c. What value for W solves the equation?
- ★★★
 6. Maxine's family wanted to build a pool in their backyard. The pool itself was to be 20 feet by 30 feet, and they wanted a 5-foot wide concrete border around it.
 - a. What are the dimensions of the whole area, pool plus concrete walk? ____ by ____
 - b. Before buying water sealer for the concrete walk, they need to know how many square feet of concrete they'll have to seal. How many square feet of concrete will there be?



★★ 7. Label the sections of the spinner R for red, B for blue, and G for green so that you will land on red one-fourth of the time, on blue half the time, and on green one-fourth the time.



SUNSHINE MATH - 5 Saturn, XXVI

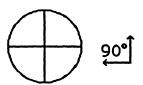
Name:					
	(This	shows	my own	thinking.) :

★★ 1. Saturn's diameter is about 71,000 miles. Its rings extend from the surface another 35,000 miles into space. What is the distance from the center of Saturn to the outer edge of its rings?

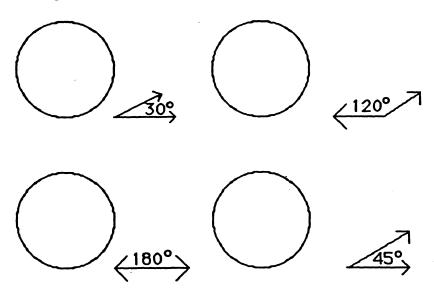


Answer: ____miles

★★★★2. The circle shown here has four congruent angles drawn at the center. The angles are congruent to the 90° angle off to the side.



Draw as many angles as possible at the center of these circles which are congruent to the angles shown. All angles within each circle must share sides.



★★ 3. Find the pattern and write the next three numbers. Then answer this question: What number comes three numbers before the 2 if the pattern were extended to the left? _____

$$2, 1, \frac{1}{2}, \frac{1}{4}, \dots, \dots, \dots$$

**	4.	Anne has duplicates of 125 stamps in her collection. She gives 50 to remainder evenly among five friends. If two of her friends put their will they have?	San stam	n, then sl ps toget	ne divides the her, how man	у
		Answer	:		stamps	
***	5.	5. Henri spun a 3-color spinner 45 times. He filled in this tally chart an the information he forgot.	d ne	eds to co	omplete it. Fil	ll in
		Red IN THE	III	<u>13</u> 45		
		Blue THL IT	 			
		Green				
					-	
**	6.	2. Complete the problem. 9 2				
		_ <u>x </u>		•		•
		<u> </u>				
		16,59				
***	7.	7. Susan's age is 3 times Andrea's age. Barbara is twice as old as Andrea 30. How old is each girl?	lrea.	The sur	n of their age	s is
		Susan is years old; Andrea is years old; Barbara is	_ ye	ars old.	-	
***	8.	3. Andy wants to run a 3-mile race at the same pace all the way throug do this in 24 minutes. He stations his Dad at the 2-mile mark to giv His Dad calls out 15:30 as he passes by. What else did his Dad say?	e hiı	n his tin	ne as he passe	an s by
		a. Great! You're right on time!				
		b. Slow down! You're ahead of your pace!				

c. Speed up! You're lagging behind your pace!

SUNSHINE MATH - 5 Saturn, XXVII

Name:				
	(This shows	my own	thinking.)	

★ 1. Brandon counted 13 kids ahead of him in line to buy concert tickets. He then counted 17 behind him in line. Five more kids got "heads" from someone ahead of him, but then 2 kids behind him dropped out. How many kids were in the line at that point?

Answer:____

★★ 2. Juan had 7 pennies, 4 dimes, and 3 nickels in his pocket. If he reached into his pocket 10 times, putting the previous coin back each time, which number best indicates how many times you would expect him to pull out a penny? Circle your answer.

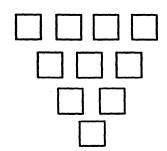
a. 7

b. 10

c. 1

d. 5

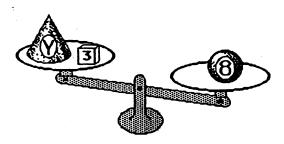
3. Place each number from 1 through 10 in a box. Each box must contain a number that is the difference of two boxes above it, if there are two above it.



★★ 4. What are the whole numbers that Y might represent on the scale, and the right side would still be heavier? Or, find the whole numbers Y which will make this number sentence true:

$$Y + 3 < 8$$

Answer: _____



*** 5. The first 500 people to visit the baseball game were given their choice of an autographed ball, a cap, a pennant, or a cup with the team logo. $\frac{1}{4}$ chose the ball, $\frac{1}{2}$ chose a cap, $\frac{1}{10}$ chose a pennant. How many of each gift were given away?

Answer: ____ balls, ____ caps, ____ pennants, and ____ cups

★★ 6. Circle the sensible measurement for each item.

thickness of a book	28 mm	28 cm	28 m
height of a flagpole	10 cm	10 m	10 km
distance walked in $\frac{1}{2}$ hour	3 mm	3 kg	3 km
length of a field	30 dm	30 m	30 mm

★ 7. Jay earns \$10 each week during the summer mowing lawns in his neighborhood. His parents require him to save 25% of his earnings. If he works 9 weeks during the summer, how much can he expect to save by the end of the summer?

Answer: ____

- *** 8. The fifth grade was surveyed to find which pets they liked. The diagram shows the results:
 - a. How many like dogs and birds but not cats? ____
 - b. How many like only cats?
 - c. How many like dogs, cats, and birds? ____
 - d. What is the ratio of students who like all pets to those who answered the survey?

