

Neptune Grade 7

WORKSHIE

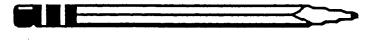
SUNSHINE MATH - 7 Neptune, I

Name:			_
	(This shows my own thinking	1	

★ 1. A student scores 85, 79, 92 and 100 on her math quizzes. What was her average grade?

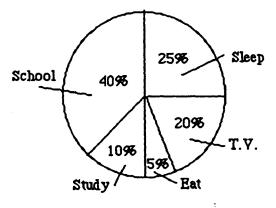
A	
Answer:	

★★ 2. Stella bought 4 pencils at the school bookstore. She gave the clerk \$2 and received 16¢ in change. How much did she pay for each pencil?



Answer:

- ★★ 3. The circle graph shows Tom's daily activities, and the percentage of time he spends on each.
 - a. Which two activities together take up half Tom's time?
- b. Which activity takes twice as much time as studying?



Answer: a. ____ and ____

b. _____

4. Russell, a seventh grader, finds out the winner of the school talent show at 4:00 P.M. on Friday. He calls two seventh grade friends at 4:15 P.M. to tell them. By 4:30 P.M. they each call two 7th grade friends. If each person who is called calls two more 7th graders every fifteen minutes, when will all 176 seventh grade students know the winner?

Answer: _____

*	5.	One number is 7 less than another. Their product is 60. What are the two numbers?
		Answer: and
***	6.	How many different whole numbers can be made with the digits 1, 2, and 3? Any number you make can have 1, 2, or 3 digits in it but you may not repeat a digit in any one number.
		Answer:
**	7.	A rectangular yard 80 feet by 60 feet has a fence with a post on every corner and another post every five feet. How many posts are needed for the entire fence? Use the drawing below if it helps.
		Answer:
**	8.	The blueprint for landscaping a yard has a scale of 1/2" to 1 foot. If the blueprint is a rectangle 18 inches by 22 inches, what are the dimensions of the yard?
***	9.	A miniature television is placed on a scale as shown to the right. Then a helium balloon is added. The helium balloon has negative weight since it pulls up on the
		scale. What is the weight of the helium balloon? Answer: 40 0Z 27 0Z

SUNSHII	NE	MATH	_	7
Neptune,	П			

Name:		
	(This shows my own thinking)	

★★ 1. How many different ways can \$0.50 be made with fewer than 8 coins?



	Answer:
2.	What integer between 10 and 20 is a solution to $(x-4) + (x+8) = 36$?
	Answer:

 $\star\star$ 3. A punch recipe calls for 2 quarts of orange juice, $1\frac{1}{2}$ quarts of apple juice, and $1\frac{1}{2}$ quarts of soda water. How many cups of punch will this recipe make?

Answer:	

** 4. Find a pattern and then write the next two terms according to your pattern.

5, 6, 8, 9, 11, 12, 14, 15, 17, 18,

Answer:	and	

 $\star\star$ 5. In the pattern above, what two numbers would come before 5?

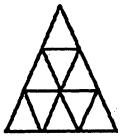
Answer: ____ and ____

			<u> </u>			•			
								Answ	ver:
**	7.	Lisa, Drew, David and younger than I each? Use the char	Lisa. Drew is yo	ounger th					
				11	12	13	14		
			Lisa						
			Drew						
			David						
			Kelly						
***	8.	Cindy and Bill spe and dad are very be	usy in the city, b	summer out the ch	vacation	n at the would lil	cottage at	t the la	ke. Their mom cottage longer
***	8.	Cindy and Bill spe	end part of their a usy in the city, b ummer. A new j ings. Mom said	summer out the ch pizza res	vacation ildren v taurant y could	n at the ovould lill opened stay as	cottage at ke to stay at the lak many day	t the la at the e that : ys as th	ke. Their mom cottage longer served pizzas ne number of
***	8.	Cindy and Bill spe and dad are very be and longer every so with different topp different orders of	end part of their a usy in the city, b ummer. A new j ings. Mom said	summer out the che pizza res that the zas. Wi Meat Gree	vacation ildren v staurant y could th the fo	n at the ovould lil opened stay as ollowing	cottage at ke to stay at the lak many day	t the la at the te that ys as th s, how	ke. Their mom cottage longer served pizzas ne number of
***	8.	Cindy and Bill spe and dad are very be and longer every so with different topp different orders of stay? Pepperoni Mushroom	end part of their susy in the city, bummer. A new pings. Mom said two topping pizes	summer out the che pizza res that the zas. Wi Meat Gree	vacation ildren votaurant y could the football on Peppe	n at the ovould lil opened stay as ollowing	cottage at the to stay at the lak many day topping Salam Tomat	t the la at the te that ys as th s, how	ke. Their mom cottage longer served pizzas ne number of long can they
***		Cindy and Bill spe and dad are very be and longer every so with different topp different orders of stay? Pepperoni Mushroom	end part of their susy in the city, bummer. A new pings. Mom said two topping pizes Sausage Onion Avocado	summer out the ch pizza res that the zas. Wi Meat Gree Tuna	vacation nildren v staurant y could th the fo ball on Peppe a Fish	n at the evould lil opened stay as ollowing	cottage at the to stay at the lak many day topping. Salam Tomat Ham Answe	t the law at the te that sys as the sys, how the sys as	ke. Their mom cottage longer served pizzas ne number of long can they Garlic Pineapple

SUNSHINE MATH	-	7
Neptune, III		

Name:					
	(This	shows	mv owr	ı thinkin	0)

★ 1. How many triangles are in this drawing?



Answer:

 $\star\star$ 2. Insert parentheses in the following sentence to make it true.

 $40 - 6 \times 6 - 2 - 6 = 10$

★★★ 3. The telephone company has 25 computer-controlled switching systems. Each system handles 700,000 calls an hour. The system works with 95% accuracy. How many calls would <u>not</u> be accurately handled in one day?

Answer: _____

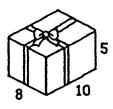
★ 4. You stop for lunch with your family on the way to the football game. The total bill for lunch is \$15.00. The service is good so you would like to leave the server approximately 20% as a tip. The game is ready to begin, so you quickly figure about how much you should leave! How much is it?

Answer: _____

★★ 5. Spaghetti costs 99¢ a pound. A jar of sauce costs \$2.59 and garlic bread is 2 loaves for \$1.39. You have invited friends for dinner and you need 2 pounds of spaghetti, 2 jars of sauce and 3 loaves of bread. To the nearest dollar, how much will it cost?

Answer:

★★★★ 6. Ricardo wants to cover this 8" by 10" by 5" box with contact paper. How many square inches of contact paper will he need? How much ribbon will he need if the bow itself adds 15 inches?



Answer: _____ sq. in. of contact paper and ____ inches of ribbon

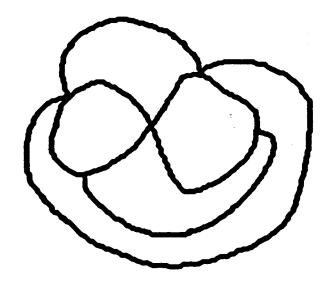
★★ 7. On the same day in early June, the temperature in Miami, Florida, was 88°F and the temperature in Nome, Alaska was -6°F. How much warmer was it in Miami?

Answer: _____

** 8. Fabian bought 6 notebooks at the school bookstore. He gave the clerk \$6. If two notebooks cost \$1.77, and the sales tax was 6%, how much change should he receive?

Answer:

★★ 9. If you start in the right place on this figure, you can trace the whole path without lifting your pencil and without retracing any path. Circle a place to start to do this. You get two stars if you can circle both places where you can start and accomplish this task.



SUNSHINE MATH - 7 Neptune, IV

Name:		_
	(This shows my own thinking)	

	•	
*		Sam has to be at work at 6 P.M. He leaves his house at 4:10 P.M. and it takes him 20 minutes to drive to the library. It takes him 25 minutes to drive from the library to work. How much time can he spend at the library?
		Answer:
**		Remove 8 toothpicks and leave 2 squares. Show the ones to remove by making an X through them.
**		Stamps come in large sheets with perforations in between. How many different ways car you buy 4 attached square stamps? (Two ways to put them together are considered the same if one way can be turned or flipped so that its outline looks like the other way.)
		Answer: ways
r * *		A video arcade offers 6 free games to first time customers. Each game costs \$.75 with a free game for every four you buy. How many games could you play for \$3.00 the first time you are a customer?
		Answer:: games
**	5.	Apples sell for \$1.29 a pound, and there is an average of 3 apples per pound. About how many apples would you expect to get for \$5.00?
		Answer: s
**	6.	A number x is increased by 27 and the result is multiplied by 6, giving 372 as the result.
		What was the original number x?

*** 7. A gymnast received the following scores from 5 judges in the state competition:

floor:	8.8, 9.3, 8.1, 8.9, 9.5
bars:	7.6, 8.2, 8.5, 8.2, 8.9
vault:	9.5, 8.9, 9.4, 9.5, 9.0
beam:	8.4, 8.5, 8.4, 7.9, 8.7

Her score for each event is found by computing the average after the high and low score is thrown out and rounding to the nearest hundredth.

✓ What was her score on each event?

floor: _____ bars: ____ vault: ____ beam: ____

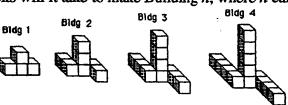
- ✓ What was her worst event? _____
- ✓ What was her best event? _____
- ✓ What was her total score for the day, all 4 events combined? _______
- *** 8. How many 22 centimeter pieces of string can be cut from a 4.2 meter piece of string? How many centimeters are left over?

Answer: _____ pieces with ____ cm left over.

★★★★ 9. Some buildings are shown below. If the builder continues this same pattern:

How tall will the tower be in Building 100? _____ blocks high How long will each of the two wings be in Building 500? _____ blocks long How many blocks will it take to make Building 1000? _____ blocks

How many blocks will it take to make Building n, where n can be any whole number?



SUNSHI	VE	MATH	_	7
Neptune,	V			

Name:						
	(This	shows	my	own	thinking.)	i

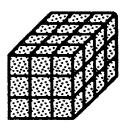
★★ 1. What is 10% of 20% of 30% of 100?

Answer:____

★ 2. The hundreds digit of a three digit number is $\frac{1}{3}$ of the ones digit and twice the tens digit. What is the number?

Answer:____

★★ 3. How many small cubes are used to make this solid prism?



Answer:_____

*** 4. If the above prism was dipped in green paint, how many small cubes would not have any paint on them?

Answer:____

★★★ 5. A snail starts at the bottom of a 20-foot well. Each day he climbs up $4\frac{1}{2}$ feet, but at night slips back 2 feet. How many days will it take to reach the top of the well?

Answer:_____

**	6.	The highest point in Florida is in Walton county. It is 345 ft. above sea level. Sombrero
		Key is 30 ft below sea level. What is the difference, in feet, between these two points?

Answer:			
1 1110 W OI .			

*** 7. A jar contains 48 marbles, identical except for color. There are twice as many yellow as red marbles and twice as many blue as white marbles. There are 6 more white marbles than red marbles. What is the probability of drawing at random a yellow marble from the jar?

Answer:	•
7 TYTO AA OT !	

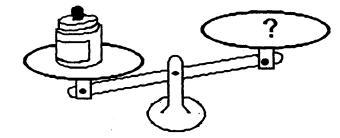
★ 8. Add one operation sign (+, -, x, or +) to make this mathematics statement true.

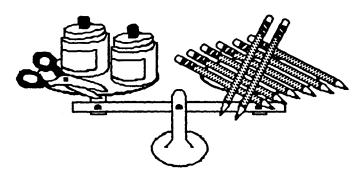
$$7 0 4 3 8 4 = 7 1 2 7$$

*** 9. How many pencils does it take to balance the jar of paste, given the information below?

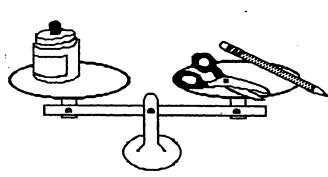
Answer: It takes ____ pencils to

balance the paste.





1 pair of scissors and 2 jars of paste balance 8 pencils.

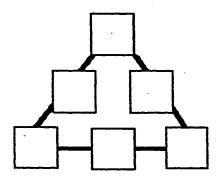


1 jar of paste balances 1 pair of scissors and 1 pencil.

SUNSHINE MATH - 7 Neptune, VI

Name: _____ (This shows my own thinking.)

★ 1. Use the fractions $\frac{5}{6}$, $\frac{1}{3}$, $\frac{1}{2}$, $\frac{1}{6}$, $\frac{2}{3}$, and 1 so the sum of each side of the triangle is 2.



★ 2. The football team played fifteen games this season and won three more games than it lost. How many games did the team lose?

Answer:

 $\star\star\star$ 3. Look for a pattern. Use the pattern to predict the value of 999,999,999 x 9.

$$222,222,222 \times 9 = 1,999,999,998$$

 $333,333,333 \times 9 = 2,999,999,997$
 $444,444,444 \times 9 = 3,999,999,996$

Answer: $999,999,999 \times 9 =$

★★ 4. If three math students do 3 math problems in 3 minutes, how long will it take 33 students to do 33 problems? (The students are splitting the task.)

Answer: _____

★ 5. You are ordering pizza for 10 people. Each pizza has 8 slices. What is the fewest number of pizzas to order so that everyone gets the same number of whole slices?

Answer:

 $\star\star$ 6. Add only one arithmetic sign (+, -, x, +) to make the mathematics sentence true.

9 3 4 4 6 3 = 4 3 2 4 4 2

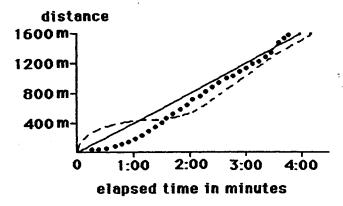
 $\star\star\star$ 7. What three consecutive numbers have a sum which is $\frac{1}{5}$ of their product?

Answer: _____

*** 8. Rose bought some donuts. She gave $\frac{1}{2}$ of her donuts and $\frac{1}{2}$ of a donut to her mom. Then she gave $\frac{1}{2}$ her remaining donuts and $\frac{1}{2}$ of a donut to her brother. Then she gave $\frac{1}{2}$ her remaining donuts and $\frac{1}{2}$ of a donut to her sister. This left her with $\frac{1}{4}$ dozen donuts. How many donuts did Rose originally buy?

Answer:

- ★★★9. Lu, Roberto, and Sasha had a 1600-meter rollerblading race. A recording device was attached to each one. The graph of the race was plotted on the same axis system, as shown below.
 - a. What was the order in which they finished, 1st to 3rd? _____, ____,
 - b. Who started off the slowest? _____ The fastest? _____
 - c. At about what time after the race started did Sasha pass Lu?
 - d. Who raced at the same pace, all the way through?



SUNSHI	NE MATH -	7
Neptune,	VII	

SUNSHINE MATH - 7 Neptune, VII		Name:(This shows my own thinking.)				
***	1.	What common fraction is equivalent to 0.3	325 ?	Ansv	ver:	
*	2.	What five consecutive odd numbers total	95?			
				Ansv	wer:	
**	3.	Lisa had some money. She gave half to h Then she lost 25¢ and only had 50¢ left.	er brother How mucl	and sp	pent half of wh ey did she have	at she had left. to begin with?
	r			Ansv	wer:	
***	4.	Arrange the digits one through nine in the circles in such a way that each row across and down has the same total.)		
)		\bigcirc
)		\bigcirc
*	5.	Find a year between 1970 and 1980 when the thousands place equals the sum of the	e the sum digits in t	of the he one	digits in the hues place and the	andreds place and tens place.

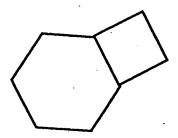
★★ 6. Andy takes a 30 question test. How many questions can he miss and still make a 75%?

Answer:

Answer: _____

7. If a regular hexagon shares a side with a square, and the perimeter of the hexagon is 72 cm, what is the area of the square?

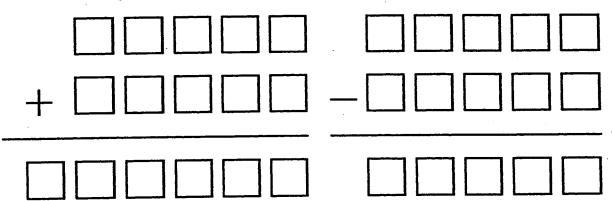
Answer: _____



- ***
- 8. Put the digits 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9 into each square, using each digit only once.

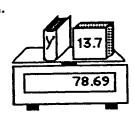
Make the sum of the 2 five-digit numbers as large as possible:

Make the difference the smallest possible positive integer:



- 9. Write and solve an equation to show each situation below.

A.



В.





Equation A: _____

solution: $y = \underline{\hspace{1cm}}$

Equation B:

solution: $x = \underline{\hspace{1cm}}$

Equation C:

solution: n =____

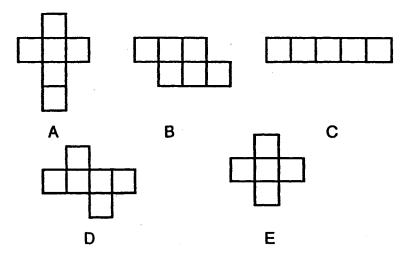
SUNSHINE MATH - 7 Neptune, VIII

Name:	****
	(This shows my own thinking.)

***	1.	On a farm there were 36 heads and 104 legs when counting the cows and chickens.	How
		many chickens were on the farm? How many cows were on the farm?	

Answer: ____ chickens and ____ cows

 $\star\star$ 2. Circle the figures that can be folded to make a closed cube.



★★★ 3. Give the exact number of degrees in the smaller angle formed by the hands of the clock at 5 o'clock. The picture is not accurate enough to be measured with a protractor.



Answer: _____

 $\star\star$ 4. Your sock drawer has 10 blue socks, 16 red socks and 12 white socks.

a) In the dark, what is the probability that you will pull out a white sock?____

b) If you pull a white sock and put it on, what is the probability that the next sock you pull out will also be white?

 $\star\star$ 5. Place the next three numbers in the pattern:

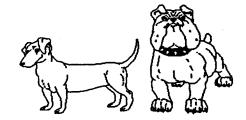
1, 3, 6, 10, 15, ____, ___,

★★ 6. A student has the following grades on a math test: 65%, 90%, and 85%. What is the highest possible average the student can receive if there will be one more test, and all four tests count equally?

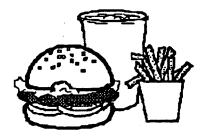
Answer: _____

★★★ 7. If it takes 2 dogs 2 minutes to eat 4 bones, how long will it take 4 dogs to eat 24 bones?

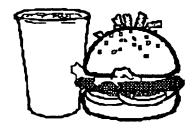
Answer: _____

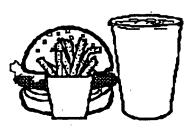


- $\star\star$ 8. Insert parentheses to make the sentence true: 28 20 3 4 = 7
- ★★★ 9. Walter saw this view of his hamburger, fries, and cola when he looked straight at the counter. Tell which view each of the pictures below show, the view from the right, from the left, or the view from the back of the counter. Write "right," "left," or "back" in the correct blank.





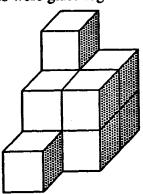




SUNSHINE MATH - 7 Neptune, IX

Name: _____ (This shows my own thinking.)

★ 1. How many cubes were glued together to create this solid figure?



Answer: _____

- ★★★ 2. A CD costs \$14.76, including tax. You give the clerk a twenty dollar bill and a penny.
 - a) Why would you give the clerk the extra penny?

Answer:

b) How much change will you receive?

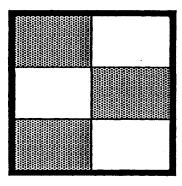
Answer:

★★ 3. Estimate a 15% tip for a \$15.32 restaurant bill. About how much money should you leave as a tip?

Answer: _____

★★★ 4. Mary calls every three days, Nicole calls every 4 days and Cindy calls every 6 days.
 Once in every ____ days, all three will call on the same day.

★ 5. What percent of the rectangle is shaded?



Answer:

★★ 6. Estimate to the nearest half hour the time it will take to travel 870 miles at an average speed of 50 miles per hour.

Answer: ____

*** 7. The figure below consists of 5 squares of the same size. The area of the figure is 180 square units. What is the perimeter?



Answer:

*** 8. You've heard "Two wrongs don't make a right." But in the puzzle below, two wrongs do make a right! Solve the puzzle by finding the values of the letters W, R, N, G, T, and I.

Letter O = 0 (zero) Letter H = 8

W =__ R =__ N =__ G =__ I =__

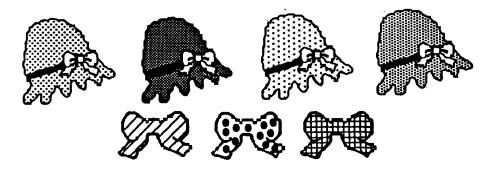
SUNSHINE MATH-	. '	7
Neptune, X		

Name:					
	(This	shows	my own	thinking.)	

**	1.	At Super Star Middle School, sixty of eighty teachers are female. teachers are male?	What percent of the
----	----	--	---------------------

Answer: ______%

Aurelia has 4 hats; one green, one yellow, one blue and one purple. She has 3 pretty bows for them; one with stripes, one with polka-dots and one with checks. If she must use one bow per hat, how many different hats can she possibly make, assuming she can put any bow on any hat and change them whenever she chooses?



Answer: ____hats

★★ 3. Sam wants to have a Halloween party for 30 of his friends. Jumbo subs cost \$15.99 and can feed 8 people. How much will Sam spend to feed himself and thirty friends, after sales tax of 7% is added?

Answer: \$____

★★★ 4. In her first 20 free-throw attempts, Suzie sunk 9 baskets. How many baskets must she sink in her next 30 attempts to have an overall average of 70%?

Answer: _____ baskets

***	5.	The area of the large square made on a wooden geoboard is 81 sq. in. What is the area of the shaded portion? Answer: sq. in.
***	6.	How many terms does the following arithmetic sequence have?
		2.5, 4, 5.5, 7,
		Answer:
**	7.	How many squares are shown in the picture below?
	٠	Answer: squares
*	8.	Miguel's family wants to go to Disney World. Admission is \$38.00 each. His dad has saved \$75.00. How much more does he need to save for Miguel, his dad, his mother and his sister to go to Disney World?
		Answer: \$

SUNSHINE MATH - 7 Neptune, XI

Name:		
	(This shows my own thinking.)	

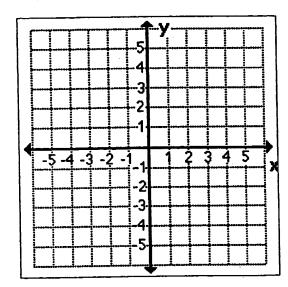
★★ 1. If a train has 1 engine and 3 other cars, and the engine must always be in front, how many different ways can the 4 cars in the train be arranged?



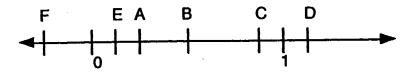
Answer:	

★ 2. Plot these points on the grid below and connect them in order. You should get a familiar picture.

h. (1,0)



★★★★ 3. If point A is multiplied by point B the answer will be point _____



★★★4. Mike's birthday was 100 days ago. Today is Wednesday. On what day of the week did his birthday fall?Answer: ______

		<i>*</i>	
***	5.	David signed a contract that says he must bu organization wants them ready within one me he will receive \$40 and for every one he fails of the month David received \$150. How ma	to complete he will be fined \$10. At the end
			Answer:
***	6.	Mary starts a project at the library at 9:00 A. about 4 hours. She plans to take a 15 minute is about 20 minutes. About what time would	M. She estimates that her work will take her break and a 30 minute lunch. Her walk home she expect to return home?
			Answer:
**	7.	In 1977, Florida started keeping records on to The results through 1980 are shown below. died per year from 1977 to 1980? Round yo	he number of manatees that died each year. What is the average number of manatees that our answer to the nearest whole number.
		<u>YEAR NUMI</u> 1977	BER DEAD 112
	•	1977 1978 1979	88 80
		1980	65
			Answer:
***	8.	The scale shows weight in grams. How much does each cup of coffee weigh? Remember that a balloon can have negative weight, if filled with helium.	
		Answer: grams	31 25
***	9.	Write an equation for the situation below. S	solve the equation by finding the value for t.
		Answer: An equation is:	The solution is $t = $
		5	8.3———

15.7

SUNSHINE MATH-	7
Neptune, XII	

Name:						
	(This	shows	mv c	own	thinking.)

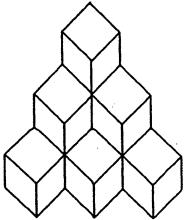
		4 4 4	4
			Answer:
**	2.	2. This figure is made of 24 toothpicks arrange remove 4 toothpicks, by putting an ** on the	ed to form 9 small squares. Show how to m, to leave 5 small squares.
***	3.	3. Give an example of 4 different test scores w	hose median equals the mean.
			Answer:
*	4.	4. There are 5 students on the bowling team, 8 the tennis team. The only students on more bowling and tennis teams. How many students on the bowling are students on the bowling team.	than one team are the two students on both the
			Answer: people
**	5	5. Before the big flag football game between team all shake hands with each other. How	th and 8th grade girls, the ten 7th graders on the many handshakes are exchanged?
·			Answer:

***	6.	A new lottery game has 8 scratch-off spots. The numbers from 1 through 8 have been randomly placed on the spots. To win, you have to scratch off 3 even numbers with only 3 scratches allowed. What are your chances of winning? Answer:
****	7.	To make money for the 7th grade end-of-year party, baked goods were to be sold. Herbert was assigned to correctly price the cookies. A small cookie was to sell for 25¢. A giant cookie, whose diameter was 4 times that of the small cookie, was also to be made. Herbert priced the giant cookie based on its area as compared to the area of the small cookie. How much did it sell for?
		Answer:
***	8.	Shown below are the front view and top view of two buildings made according to a pattern.
		a. How many blocks would it take to build the 5th building in the pattern?
		b. How many blocks would it take to build the 10th building in the pattern?
		c. If you had 1000 blocks, what the largest building number you could build?
**	9.	front view top view Building 3 How much larger is the sum of the even numbers from 1 to 100, than the odd numbers from 1 to 100?
		Answer:

SUNSHINE MATH - 7 Neptune, XIII

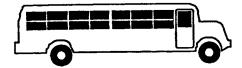
Name: _____ (This shows my own thinking.)

★ 1. How many cubes were needed to create the solid figure below?



Answer: ____cubes

★★★★
 One bus arrives at Mathematics Mall every 16 minutes, while another bus arrives every 20 minutes. If they both arrive at 3:00 P.M. what is the next time they will both arrive at the mall at the same time?



Answer: _____

★★★★ 3. A basketball team has players with the following heights:

If the average height of this 5-player team is 6'1", how tall is the fifth player?

Answer: ____ft. ___in.

★ 4. The sum of the ages of Amy and her sister is 19 and the difference is 5. What is the product of their ages?

Answer:

★ 5. A battery in a portable T.V. has an expected life of 1000 hours. If you watch such a T.V. every day from 4 P.M. until 10 P.M., about how many months can you expect your T.V. to play using the original battery?

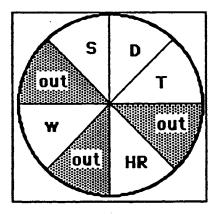


Answer:	 month

★★★ 6. The estimated cost of sending a person to Mars is \$45 billion. This amount is to be shared equally by the 250 million people in the United States. What is each person's share?

Answer: \$_____ per person

- ★★★ 7. Dante made a dart board "baseball game" for his house. As the batter, he would either get a walk (w), a single (s), a double (d) a triple (t), a homerun (hr), or make an out. If his darts land randomly on the board,
 - a. What percent of the time will he be successful in getting on base? (Hint: A home run is counted as getting on base) _____
 - b. What percent of the time will he make an out?
 - c. What is the chance that he will make 3 outs in a row?



★★ 8. Three out of every five students who eat lunch in the cafeteria have chocolate milk. How many students can you expect to drink chocolate milk if 250 students eat lunch in the cafeteria on Friday?

Answer: _____ students



SUNSHINE MATH - 7 Neptune, XIV

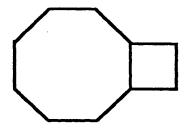
Name:					
	(This	shows	mv own	thinking.)	

	_						•
**	1.	On the average.	human beings	breathe 980	times each hour.	Assume v	Ou are average.

- a. About how many breaths per week do you take?
- b. About how long would it take you to breathe a million times?
- ★ 2. John has 20 dimes and 30 pennies. Ken has the same amount of money in nickels and quarters. If Ken has 8 quarters, how many nickels does he have?



 $\star\star$ 3. If the perimeter of a regular octagon is 48 cm., what is the area of the adjacent square?



Answer: _____sq. cm.

★ 4. Mark and John drive to work together. They split the cost of parking in a parking garage. How much would each pay to park the car for 7 hours?

PARKING RATES	
FIRST HOUR	\$4.00
EACH ADDITIONAL HOUR	\$1.75

Answer: \$____

****	5.	Mike has a jar filled with 100 jelly beans. Some are green and some are red. When he shook the jar and removed a handful of jelly beans, he got 10 green and 15 red. Using this information, estimate the number of green and red jelly beans in the jar.
		Answer: green
		red
***	6.	Two rectangles below are similar. Find the length x of rectangle B.
		6' 14' 15'
		length x
		Answer:feet
*	7.	Sally traveled on an airplane to visit her cousin Sue. She overheard the flight attendant saying that there were 254 people on board, but the plane wasn't full. She noticed that each row seated 6 people. What is the minimum number of rows needed for the 254 passengers?
		Answer:rows
****	8.	From 3 P.M. today until 3 P.M. tomorrow, how many times will the hands on the clock coincide?

Answer:

SUNSHINE MATH - 7 Neptune, XV

Name:							
	(This	shows	mν	own	thinking.	.)	

game he lost 2, then he won 4. He continued a lost 1. How many more pogs did he have

Answer: _____ pogs

- ★★ 2. Mrs. Smith had a plaque engraved for the outstanding mathematics student. The engraving cost is 74¢ for the first eight letters and 10¢ for each additional letter.
 - a. How many letters are in a name that has a total engraving cost of \$1.84?
 - b. How much would your first and last name cost, on the plaque?
- ★★ 3. A hot-air balloon race started at 10:30 A.M. The timer started a stop watch and let it run for the entire match. When the race ended, the timer noted that 215 minutes had passed. What time did the race end?

Answer: _____

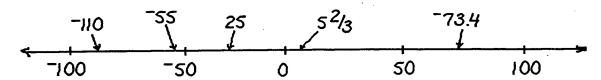


★ 4. Four out of five cars in the United States have a tape player and a radio. What percent of American cars do not have a tape player or radio?

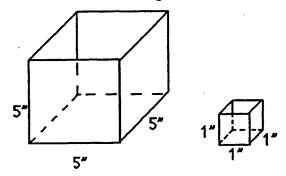


Answer: _____%

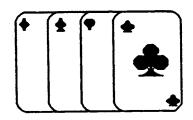
★★★ 5. The numbers below the line (-100, -50, 0, 50, and 100) are placed correctly. Three of the numbers above the line are incorrect, but two are about right. Circle the three that are incorrect.



*** 6. How many small cubes will fit in the large cube? ____ cubes



★★★★How many cards must be drawn from a standard deck to be certain that 4 cards of the same suit are drawn? Assume that the cards are not replaced each time.



Answer: _____cards

★★ 8. Jim and Rowena spent a total of 28 hours putting up a fence. Rowena worked 4 more hours than Jim. How many hours did each work?

Answer: Rowena: hours hours

SUNSHINE MATH - 7 Neptune, XVI

Name:					· · · · · · · · · · · · · · · · · · ·		_
	(This	shows	my o	wn.	thinking.	.)	

★ 1. West Side High School graduated with honors 23 boys and 24 girls. There were 210 students who graduated without honors. What percent of the graduation class were honor students?



Answer:	 %

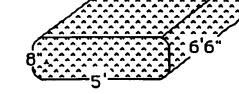
★ 2. If sixty is divided by one half and added to ten, what is the result?

Answer:	
Allowel.	

3. A queen-size water bed mattress measures 5 feet wide by 6 feet 6 inches long by 8 inches thick.

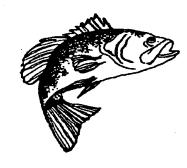
Water weighs about 62 pounds per cubic foot.

To the nearest 50 pounds, how much does such a mattress weigh, when full of water?



Answer: _____ pounds

★★★ 4. Bob Jones sometimes fishes at the pier. The gulf is 8 feet deep at the pier, but every quarter mile you move away from the pier, the gulf becomes 1 foot deeper. Sometimes Bob takes his boat out to go fishing. When he is 3.25 miles from the pier, how deep is the water?



Answer: _____ feet deep

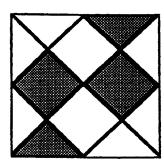
 $\star\star$ 5. If it takes $5\frac{1}{4}$ minutes to make one cut through a log, how long will it take to cut a five foot log into 5 equal lengths?



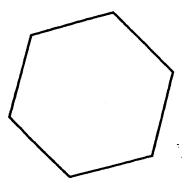
Answer: _____ minutes

★★ 6. The picture to the right is composed of squares and isosceles triangles. What percentage of the picture is shaded?

Answer: _____%



★★★ 7. Change this regular hexagon so that it looks like a cube by drawing only 3 additional line segments.



*** 8. A candy bar weighs 4 ounces. If you eat only half of the remaining candy bar with each bite, how many bites have you taken when there is exactly 0.125 ounces left.

Answer: _____ bites

SUNSHINE MATH - 7 Neptune, XVII

Name:		.	_				
	(This	shows	тy	own	thinking.)	

1. At a drive-in movie there is a fixed charge for the driver and one passenger and an extra charge for each additional passenger. If 6 people are in the car, the total charge is \$8.00. If 3 people are in the car, the total charge is \$4.25. What is the fixed charge for the driver and one passenger?

Answer: \$ _____

★★★ 2. The owner of a computer company works 7 days a week during the summer when business is booming. He wears a clean shirt to work every day. If he drops off his shirts and picks up the previous week's shirts every Monday after work, how many shirts must he own so that he doesn't run out of clean clothing?



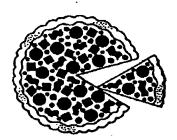


★ 3. Juanita and her family leave home for a vacation at 6:00 A.M. During the day, they stop 3 times to eat for an hour each time, and 4 times for gas and a restroom break for 30 minutes each time. They drive a total of 600 miles and arrive at 9:00 P.M. What is their average rate of speed while the car is moving?

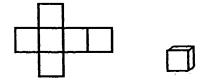
Answer: ____miles per hour

★★ 4. A pizza restaurant offers three choices of cheese, two choices for crust, and four choices for toppings. How many different pizzas can be made using exactly one choice of cheese, crust and topping?

Answer: _____different pizzas

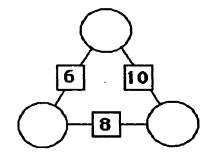


5. The figure to the left consists of 6 squares the same size. The area of the figure is 294 square units. When folded, it makes a box as shown to the right. What is the volume of the box?



Answer: ____ cubic units

★★★ 6. Find numbers for the vertices so that the numbers on the sides are the sum of vertices they join. Write each answer in the appropriate circle.



 $\star\star$ 7. A five digit zip cope has two identical missing digits x so that it reads: 69x4x

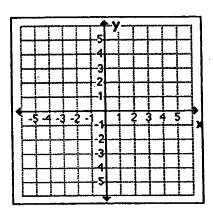
How many zip codes are possible if the zip code is divisible by 7?

Answer: ____zip codes

** 8. The average of 4 positive whole numbers is 8. If all four numbers are less than 10, what are the five possible sets of numbers?

- $\star\star\star\star$ 9. Connect these points with a heavy line:
 - (a) connect (-5, -1) to (-5, -6)
 - (b) connect (-5, -3) to (-3, -3)
 - (c) connect (-3, -6) to (-3, -1)
 - (d) connect (1, -2) to (1, -6)
 - (e) connect (0,-1) to (-1,-6) to (-2,-1)
 - (f) connect (-1.5, -3) to (-0.5, -3)
 - (g) draw a big dot at (1, -1)

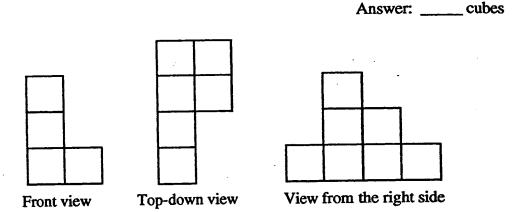
Draw the reflection of these lines about the x axis. You should now have a familiar word.



SUNSHINE MATH - 7 Neptune, XVIII

Name:	
	(This chows my own thinking)

★★★
 Three "landscape views" of a building made from cubes are shown below. How many cubes were used to make the building? Make such a building if it helps you.



★★ 2. A spider made the web shown. How many degrees are in each central angle of this web? Note that somehow the spider knows to make all the central angles congruent.

ow the spider knows to make all the central congruent.

Answer: ____ °

- ★★ 3. The length of each side of the military's pentagon building in Washington, DC, is a whole number of feet. Circle the number below which the perimeter could not be, if this is a regular pentagon:
 - a) 1990 feet

c) 2900 feet

b) 1415 feet

d) 2748 feet

★ 4. You bought 12 tickets to a raffle and your sister bought 4. If 100 tickets were sold, what is the probability that you or your sister will win the raffle?

Answer:

5. Green Cabs charge \$1.40 for the first quarter mile and \$0.65 for each additional quarter mile. Yellow Cabs charge \$1.00 for the first half mile then a flat rate of \$1.00 for each additional quarter mile. Fill out the chart below to find the cost for each company for a few miles. Graph the rates for both companies. Then answer the questions below the graph.

	en e	
Cost of: Green Cab Yellow Cab	- - \$7 ₁	
	- \$6	
$\frac{1}{2}$ mile	- \$5	
$\frac{3}{4}$ mile	- \$0	
1 mile	Cost	
$1\frac{1}{4}$ mile	\$3	
$1\frac{1}{2}$ mile	5	
$1\frac{3}{4}$ mile	- \$1∤	
2 miles		
	$0 \frac{1}{4} \frac{1}{2} \frac{3}{4} 1 1\frac{1}{4} 1\frac{1}{2}$	1 3 2
	Miles traveled	

a.	For what trip length are the Green and Yellow Cab fares the same?	
h	What hannens on the graph when the fares are the same for both?	-

*** 6. Attendance at Busch Gardens is down. To increase the daily attendance, the daily admission price of \$30 is reduced by 20%. The plan works and attendance increases, but now the park is overcrowded. To reduce the number of people, the admission price is now raised 20%. How does the new price compare to the original price?

Answer:	

 $\star\star\star$ 7. An English teacher was asked how many fish she caught. She replied:

When I tried to place a fish upon each dish, I had a fish without a dish. When I tried to place two fish upon each dish, I had a dish without a fish. You'll never hear boos and hisses, if you can find how many fishes!

How many did she catch?

SUNSHINE MATH - 7 Neptune, XIX

Name: _____ (This shows my own thinking.)

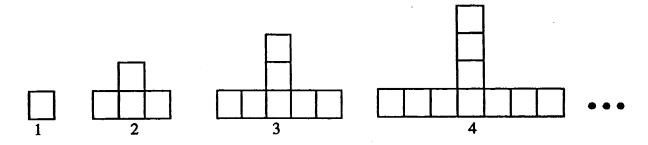
★★ 1. Which whole number values make this inequality true? Circle your choice.



- a) X = 19, 20, or 21
- c) $X = 0, 1, 2, \ldots, 19$

b) X = 41, 42, 43

- d) $X = 21, 22, 23, \ldots$
- $\star\star\star\star$ 2. The figures below form a pattern of squares. The *area* of the 1st figure is $\frac{1}{16}$ inch².
 - a. What is the perimeter of the 1st figure? ____ inch
 - b. What is the area of the 3rd figure? ____ inch2
 - c. What is the *perimeter* of the 3rd figure? ____ inches
 - d. What is the area of the 10th figure in the pattern? ____ inches²



★★★ 3. The scale on a map is: 1 inch = 16 miles. A National Park is represented on this map by a square whose side is 1/8 inch. What is the actual area of the park in square miles.

Answer: _____sq. mi.

★★ 4. If X + 2 = Y and Y + 1 = 5, then $X = ______$

Answer: _____

 $\star\star\star$ 5. If 280 = N, then 350 = _____

a) $\frac{N}{4}$

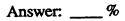
c) $\frac{4\lambda}{3}$

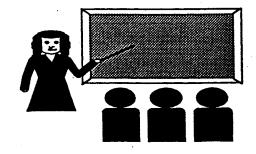
b) $\frac{4N}{5}$

d) $\frac{5N}{4}$

A	
Answer:	

★★ 6. In a class of 30, 12 are boys. If 6 more boys join the class, what percent of the class is then boys?

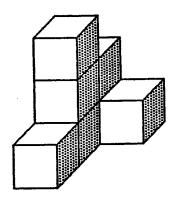




★★★ 7. In the correct addition shown below, A, B, and C are different non-zero digits. What is the value of C?

Answer:	

*** 8. The figure below is made by glueing together 7 cubes. If the figure is dipped in a bucket of red paint and allowed to dry, how many square faces will have paint on them?



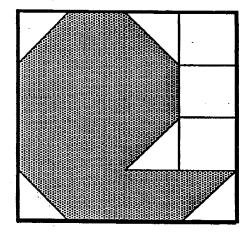
Answer:

SUNSHINE MATH - 7 Neptune, XX

Name:					·	
	(This	shows	my	own	thinking.)	

★★ 1. The city is planning a new park. Each small square is 1 acre. The shaded portion is set aside for softball diamonds, soccer and football fields, and basketball courts. How many acres of the park will be for these sports?

Answer: ____ acres



- ★ 2. Hector randomly picks an integer between 0 and 9. Which one of the following is the most likely outcome? Circle your choice.
 - a) the number is 5
- c) the number is odd
- b) the number is 9
- d) the number is not 1
- $\star\star\star$ 3. Write the correct letter from the choices below, to complete the sentence truthfully.

The difference between two prime numbers can never equal _____.

a) 1

c) 7

b) 2

- d) 8
- 4. Lin's scores on her math tests this period were: 88, 92, 88, 75, 95, 90. Her teacher said she could have her choice of the mean, median, or mode of these scores as her final grade. Which should she pick?

Answer: _____

★★ 5. The first term in a sequence (pattern) is 7. Each term in the sequence is 4 more than 2 times the number before. What are the second and third terms in the sequence?

Answer: _____,

★★6. Under the plates, there are 4 coins in a row; a penny, a nickel, a dime and a quarter. The penny is not next to the dime. The nickel is second (from the left) in the row. The quarter is to the left of the dime. Write which coin is under each plate in order from left to right?



Answer: ______

★★★7. Baseball cards can be ordered in packages of 8, 64, 512 and so on. If the package sizes continue to increase at the same rate, what is the size for the next larger package?

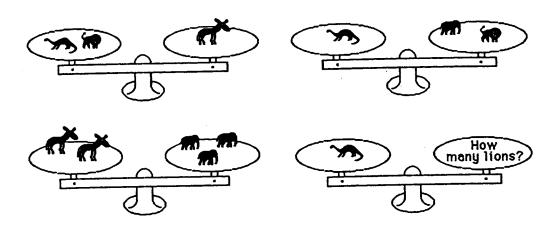
Answer:

 \star 8. Find the missing number: $\frac{2}{6} + \frac{2}{6} + \frac{2}{6} + \frac{2}{6} = \frac{??}{24}$

Answer:

** 9. A dinosaur and a lion balance a burro. A dinosaur balances an elephant and a lion, and 2 burros balance three elephants. How many lions balance a dinosaur?

Answer: ____



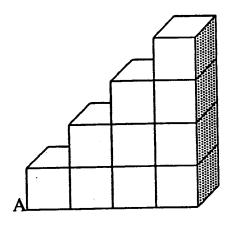
SUNSHINE MATH	-	7
Neptune, XXI		

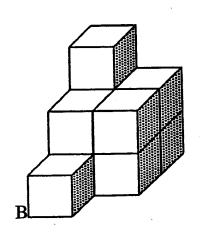
Name:	
	(This shows my own thinking.)

1. Suzie entered an elevator in a tall building. She rode up three floors, down 5 floors, up 7 floors and then down 9 floors. She found herself on the 23rd floor. On what floor did she enter the elevator?

Answer: _____

★★★
2. The following figures are both made from 10 cubes and so have the same volume. If you had to paint the outside surfaces of the cubes, including the bottom surface, which figure would require more paint?





Answer: ____

★ 3. A number x is divided by 6 and then 3 is subtracted from the result to give 4. What is the original number x?

Answer: x =

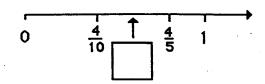
★ 4. Fill in the blank from the choices given to make the sentence true:

If the length of each side of a square is a whole number, the perimeter of the square could not be ____.

- a) 96
- c) 300
- b) 152
- d) 462

★★ 5. The supplement of an obtuse angle is always a(an) _____ angle.

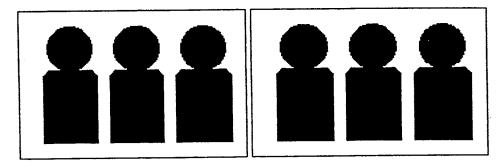
★★★ 6. The two points $\frac{4}{10}$ and $\frac{4}{5}$ are shown on the number line. Label the mid-point between them as a fraction in lowest terms.



★★★ 7. How many 2-inch square tiles are needed to make a square design that is 14 inches on each side, if there are no spaces between tiles?

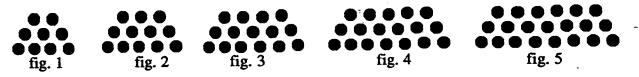
Answer:

*** 8. John has 4 more brothers than sisters. How many more brothers than sisters does his sister Mary have?



Answer:

★★★ 9. Consider the pattern of figures below.



- (a) How many dots are needed to make figure 6? ____
- (b) How many dots are needed to make figure 7?
- (c) How many dots are needed to make figure 100?
- (d) How many dots are needed to make figure n for any number n?

SUNSHINE MATH - 7 Neptune, XXII

Name:							
	(This	chauc	20031	awn	thinking	1	

★★ 1. The first four skating judges gave Mario & Maria a 4.2,
4.3, 4.6 and 5.0. What did the fifth judge give Mario & Maria if their average score from five judges was 4.6?

Answer: _____



★★ 2. Which group is ordered from least to greatest? Use your number sense!

- a) $\frac{7}{3}$, $\frac{5}{2}$, $\frac{19}{10}$
- c) $\frac{2}{6}$, $\frac{2}{8}$, $\frac{2}{10}$
- b) $\frac{4}{9}$, $\frac{4}{8}$, $\frac{4}{7}$
- d) $\frac{3}{5}$, $\frac{4}{8}$, $\frac{5}{9}$

Answer: ____

3. Cathy walks 1 mile in 20 minutes. She runs 1 mile in 10 minutes. At a recent 2-hour practice, to warm up and cool down Cathy walked for one-fourth of the 2 hours; she ran for three-fourths of the 2 hours. How many miles did Cathy travel in the practice session?

Answer: _____

 \star 4. If 10% of 10% of a certain number x is 2, then x is:

Answer:

★★★★ 5. Of 20 students in class, 15 have brown hair, 16 have brown eyes, and 12 have both brown hair and brown eyes. How many students have neither brown hair nor brown eyes?



Answer: ____

★★ 6. Draw the next two figures in the pattern below:

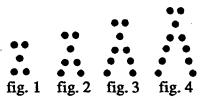
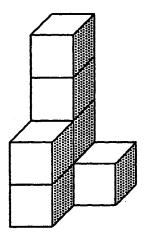


fig. 5

fig. 6

- ★★★ 7. (a) How many dots would it take to make figure 10 in the pattern above?____
 - (b) How many dots would it take to make figure n in the pattern above?_____
- *** 8. This figure is made from seven cubes glued together. If the figure was dipped into paint, removed, then separated into cubes, how many square faces would not be painted?



Answer:

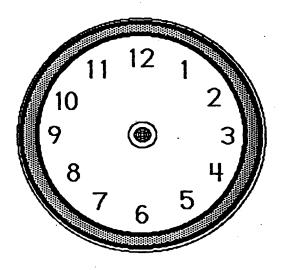
★ 9. In an airplane, 6 seats are placed in each row. What is the minimum number of 6-seat rows needed to seat 170 people?

Answer: _____

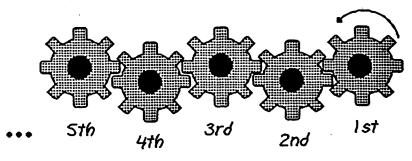
SUNSHINE MATH - 7 Neptune, XXIII

Name: _____ (This shows my own thinking.)

★★ 1. Draw hands on the clock to show 200 minutes before 2:00 P.M.



★★★ 2. Think of how the 5 gears below would turn each other—clockwise or counterclockwise—before answering the questions. The 1st gear turns counterclockwise.



- a. In what direction would the 2nd gear turn?
- b. In what direction would the 3rd gear turn?
- c. In what direction would the 4th gear turn?
- d. In what direction would the 10th gear turn?

★★ 3. A school offers 2 foreign languages, French and Spanish; 2 computer classes, Logo and BASIC; and 3 physical education classes, volleyball, swimming, and archery. How many different student schedules can be made using exactly one of each of these types of classes?

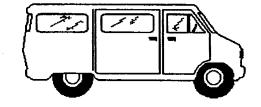
Answer:	

★★★
 4. A man has a 10 meter by 10 meter square garden. In the center is a 4 meter by 4 meter square patch he will use as a mulch pile. He uses the remainder for growing carrots, tomatoes, cucumbers and celery. Show in the drawing how to divide the growing land into 4 congruent rectangles, and tell what length and width each will be.



Answer: The length of each rectangle is ___ m and the width is ___ m.

★★ 5. What must be the rate in miles per hour of a truck, if it wants to make a 20 mile trip in 40 minutes?

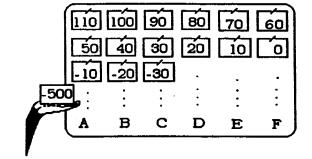


Answer: ____

★ 6. If $X = 6 + 4 + 3 + 1 + \frac{1}{2}X$, then X must equal:

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

★★★ 7. In which column should -500 go on this chart?



Answer:

 $\star\star\star\star$ 8. Write and solve an equation to find the weight of 1 ball b.

Answer: An equation is:

The solution is: $b = \underline{\hspace{1cm}}$



SUNSHINE MATH - 7 Neptune, XXIV

Name:						
	(This	shows	mv o	wn	thinking.)	

***	1. Bill bought a new Corvette in 1996 for \$42,000. If the car decreases in value 10%
	each year, in what year will the Corvette be worth less than half of what Bill paid?

Answer:



★★★★
 2. For a science experiment, Denise was asked to take 170 apples that each weighed the same, and put them in paper bags to make the greatest possible number of bags of different weights. What is the greatest number of bags that Denise can use to hold the apples, if each bag must contain at least one apple, but no two bags may contain the same number of apples?

Answer: _____bags

★★★ 3. The tortoise and the hare had a 3000 meter race. They started at the same time. The hare hops at an average rate of 9 meters per minute while the tortoise averages only 1.5 meters per minute. After one hour, how many meters was the hare ahead of the tortoise?

Answer: _____ m



★ 4. Al calls me every 3 days, Bob calls me every 4 days and Chris calls me every 6 days. Once in every _____ days all three will call on the same day.

Answer: _____



**	5.	The Mason family went to an amusement park. They spent exactly \$56.00 for tickets. The tickets cost \$12 for each adult and \$5 for each child. How many adults and how many children went to the park?
		Answer: adults
		Answer:children
**	•	Using 4 fours with any operations or grouping symbols, write an expression that has a value of 3. 4 4 4 4 Answer:
*	7.	Grades can range from 0 to 100 on a test. If you already have tests with scores of 92% and 84%, what is the lowest possible average you can have for three tests? Round to the nearest whole number.
		Answer:%
**	8.	A standard deck of 52 cards is shuffled and then put in a box. What is the probability that, if a card is drawn randomly from the box, it will have a number on it of which 4 is a factor?
		Answer:

SUNSHINE MATH	_	7
Neptune, XXV		

Name:			
	(This shows my own	thinking.)	

★ 1.	If you could	already have scores of 83%, 91% and 86% on your first three math tests, what your highest possible average be after 4 tests? (Assume no extra credit.)
-------------	--------------	--

Answer: _____%

★★ 2. Using 4 fours with any operations or grouping symbols, write an expression that has a value of 5.

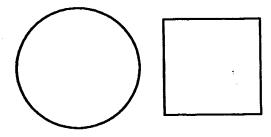
4 4 4 4



★ 3. Figure out a rule which was used to determine which letters go above the line and which letters go below the line. Use that rule to place the rest of the letters correctly.



 $\star\star\star\star$ 4. The perimeter of a square is equal to the circumference of a circle.



If the diameter of the circle is 8, what is the area of the square?

Answer: _____ sq. units

***	5. This is the same pattern looked at 2 different ways. Write the next term in the pattern. Find two ways to describe how to find each new term.
	4, 7, 13, 25, 49,,
	One way to describe the next term is:
	4, 7, 13, 25, 49,,
	Another way is:
***	Answer: acute angles Answer: right angles Answer: obtuse angles Answer: obtuse angles
***	7. Your heart beats approximately 70 times a minute. The life span expectancy of a male is 75 years, and that of a female is 79 years. To the nearest billion, how many times will your heart beat if you live to your life expectancy?
	Answer: beats
***	8. Cookies were missing from the kitchen. They were taken by Sam, Bob, or Sue. Each made a statement to their mother.
	Sam said: Bob took the cookies Bob said: That is true. Sue said: I did not take the cookies.
	If at least one of them lied and at least one told the truth, who took the cookies?
	Answer:

SUNSHINE MATH - 7 Neptune, XXVI

manne.	This shows my own	
Name:		

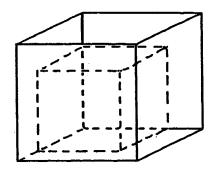
★★ 1. Using 4 fours with any operations or grouping symbols, write an expression that has a value of 6.

 $4 \quad 4 \quad 4 \quad 4 = 6$

Answer:

★★★ 2. If a cube whose edge is 4 inches is placed inside of a cube whose edge is 5 inches, what percent of the space inside the larger cube is filled by the smaller cube?

Answer: ____ %



★★ 3. A baseball team won 6 out of 12 games and then won the next 6 games. What percent of their games did they win?

Answer: ______%

★★ 4. On the school track, four laps make a mile. Mark ran 6 laps in 12 minutes. At this rate how long would it take him to run a mile?

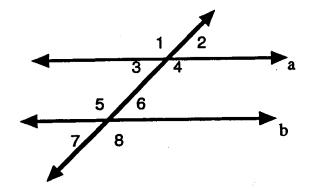
Answer: _____ minutes

★ 5. If a quart of ice cream is split equally among 4 people, what fraction of a gallon will each person get?

Answer: _____ of a gallon



*** 6. In the diagram below, lines a and b are parallel. If angle 1 measures 120° find the measures of angles 2, 3, 4, 5, 6, 7, & 8. Record them in the chart below.



Angle	Measure	Angle	Measure
			•
			·
			!

★★★7. On a TV game show there are 3 doors. The grand prize is behind one of them. If you appear on the show for 2 days in a row, what is the probability that you will pick the door with the grand prize both days?

Answer:		

8. Human hair grows at an average rate of 2.5 millimeters per week.
Suppose that today is your 13th birthday and you have not cut your hair since you were born. Estimate how long your hair would be in meters today.



Answer: _____meters

★★★ 9. Someone once asked Marilyn vos Savant, who is the smartest person in the world, this question:

Suppose the earth were smooth, and you could wrap a 25,000-mile-long metal belt snugly around it. Now let's say you lengthen the band by 10 feet, loosening it just a little. What would be the largest thing that could slither under the new band? An amoeba, a worm, a snake, or an alligator?

What was her answer?	
	Answer:

SUNSHINE MATH - 7 Neptune, XXVII

Name:			_
	(This shows my own thinking	1	

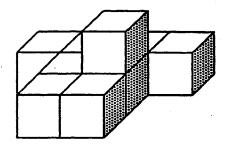
★★ 1. Using 4 fours with any operations or grouping symbols, write an expression that has a value of 7.

 $4 \quad 4 \quad 4 \quad 4 = 7$

Answer:

★★★ 2. To glue these 9 cubes together, how many square surfaces must be joined?

Answer: ____



★★ 3. It was 3:00 PM when Akita measured the depth of her fish pond to be three and one half feet. It was filling at a rate of 1 inch per minute. When would it be 8 feet deep so she could turn the pump off?

Answer: _____ o'clock

★★★ 4. In a summer camp, counselors often split the campers into 3, 5 or 6 equal groups but they always ended up with one extra camper. Today they split the campers into 7 equal sized groups and there were no campers left over. What is the smallest number of campers at this camp?

Answer: _____ campers

 $\star\star\star$ 5. Find the pattern. Use it to write the next 4 terms in the blanks.

1, 1, 2, 3, 5, 8, 13, 21, ___, ___, ___, ___, ___, ...

r ★★	6.	The sum of 5 different positive integers is 500. What is the largest possible value for one of these integers.
		Answer:
**	7.	Four typists can type a total of 200 letters in 2 days. How many letters can two of these typists type in one day?
		Answer:letters
**	8.	In how many ways can the Williams family, shown in the picture, arrange themselves in a line? Don't count the dog as a family member!
		Answer: ways
**	9.	Write an equation and solve it to answer the question in this problem. Fingernails grow about 1.5 inches per year. How many years y would it take to grow a world record nail of 37
		inches, starting with your present length of about 1/2 inch? Answer: Equation: Solution: y =
***	10.	Write an equation and solve it to answer the question in this problem. Carrie started saving with a \$10 gift from Grandma. She saved half her allowance a each week. At the end of a year she had \$88. How much per week was her allowance?
		Answer: Equation: Solution: $a = $