

SUNSHINE MATH - 4

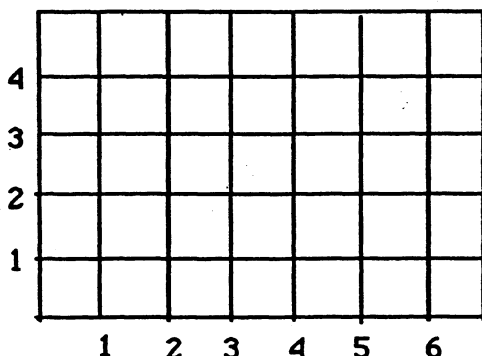
Jupiter, XVII

Name: _____

(This shows my own thinking.)

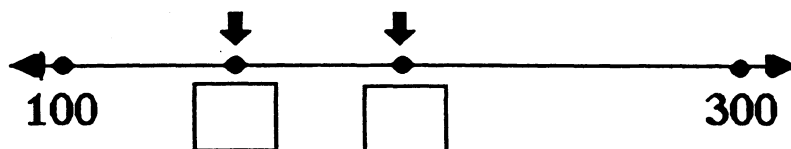
- ★★★ 1. Make big dots on the grid for the following ordered pairs, and label them A, B, C, or D.

A is (2,4); B is (6,4); C is (6,1); D is (2,1)



- Connect A to B to C to D to A with a heavy pencil line.
- Name the shape you drew. _____
- Give the *area* of the shape in square units.
_____ sq. units

- ★★ 2. Write in the boxes the numbers to show the arrows' positions on the number line.

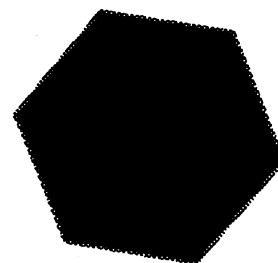


- ★★★ 3. The *Guinness Book of World Records* states that the largest pumpkin on record weighed 671 pounds. If this pumpkin was lifted onto the scales by 11 fourth graders, on average, how much would each student be lifting?

Answer: _____ pounds

- ★★★ 4. The computer tables in a classroom were placed together to form the polygon pictured to the right.

- Name the polygon that was formed. _____
- How many angles does this polygon have? _____ angles
- Are the angles *acute*, *obtuse*, or *right*? _____



- ★★ 5. In the United States, every 57 minutes an underage drinker is involved in a traffic fatality. A recent report urges a crackdown on teen-age drinking and driving. Estimate the number of underage drinkers involved in traffic fatalities each day.

Answer: _____

- ★ 6. Decide if an estimate or a precise calculation is appropriate for each situation. Write "estimate" or "precise calculation" in the answer spaces. Use each term once.

Situation 1: *Checking the change you receive after paying for lunch.*

Answer: _____

Situation 2: *Planning the time it will take to travel from one town to another on a trip.*

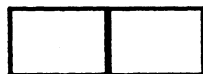
Answer: _____

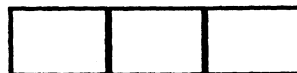
- ★★★★ 7. Fill in the total number of rectangles found in each pattern below.

PATTERN

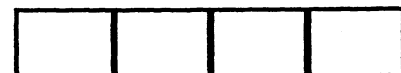
NUMBER OF RECTANGLES







6





- ★★★ 8. Describe how to find each "next number" of rectangles, without drawing the figure:

Answer: _____

- ★★ 9. How many total rectangles will there be if 7 small rectangles are used in the pattern?

Answer: _____

SUNSHINE MATH - 4

Jupiter, XVIII

Name: _____

(This shows my own thinking.)

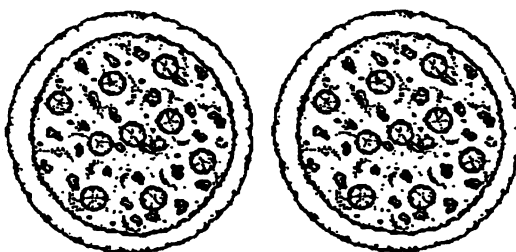
- ★★★★ 1. You are playing a card game with a full deck of 52 cards. You win if you draw a *red card* that is a *multiple of 5*. What are your chances of winning on your first draw?

Answer: _____



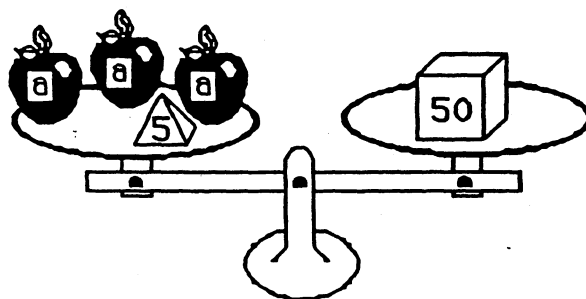
- ★★★ 2. The Tappens ordered two pizzas for dinner Friday. Dad ate $\frac{3}{4}$ of one pizza, Jenny ate $\frac{1}{8}$ of a pizza, Danny ate $\frac{1}{4}$ of a pizza, and Mom ate $\frac{1}{2}$ of a pizza. What fraction of a pizza was left for a midnight snack?

Answer: _____ of a pizza



- ★★★ 3. Leah liked to balance objects she found around the house using the science kit she got for Christmas. She found that 3 identical apples and a 5-gram weight exactly balanced a 50-gram weight. Leah said she could tell how much each apple weighed by solving the equation $3a + 5 = 50$. Prove Leah was correct by finding the weight of 1 apple.

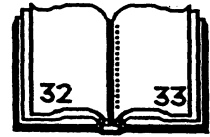
Answer: $a =$ _____



- ★ 4. Apalachee Elementary School has a total of 16 classes. There are 104 fourth graders, divided equally among 4 classrooms. How many fourth graders are in each class?

Answer: _____

- ★ 5. If one or both of the numbers in a multiplication problem are *even*, the product will be *even*. Therefore if you open a book and multiply the facing page numbers together, the product will be an *even* or *odd* number?



Answer: _____

- ★★ 6. Tonya is making friendship bracelets for each girl coming to her sleep-over party. Each bracelet will be braided with 4 purple strings, 3 yellow strings, 2 green strings and 3 blue strings. She is expecting 8 friends to attend her party. Each string costs 10 cents. It takes Tonya about 20 minutes to braid each bracelet.



- a. How much will the string cost Tonya? _____
b. How long will it take Tonya to make all the bracelets ? ____ hours and ____ minutes

- ★ 7. About how long is it around the outside edge of an ordinary door in your home? Circle the best answer below.



- (a) 10 meters (b) 4 meters (c) 15 meters (d) 6 meters

- ★★ 8. Below is a bus schedule showing departure times and arrival times from various cities in Florida to Ft. Lauderdale. How much time does the longest trip take?

DEPARTURES		ARRIVALS	
Jacksonville	8:30 AM	Ft. Lauderdale	3:00 PM
Tallahassee	7:30 AM	Ft. Lauderdale	7:00 PM
Tampa	10:00 AM	Ft. Lauderdale	3:00 PM
St. Augustine	8:00 PM	Ft. Lauderdale	4:00 AM

Answer: _____ hours and _____ minutes

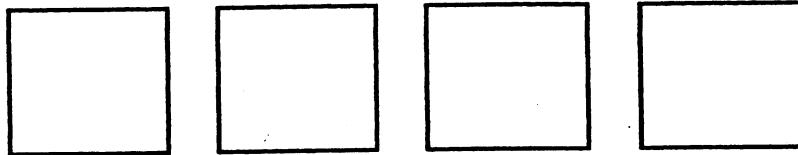
SUNSHINE MATH - 4

Jupiter, XIX

Name: _____

(This shows my own thinking.)

- ★★ 1. Divide each of the squares below differently so they represent fourths.



- ★ 2. Tiger roared every time someone passed its home in the zoo. Tiger roared more than 39 times but fewer than 46. It roared an odd number of times. You say the number when you count by 3's and by 5's. How many times did Tiger roar?

Answer: _____ times

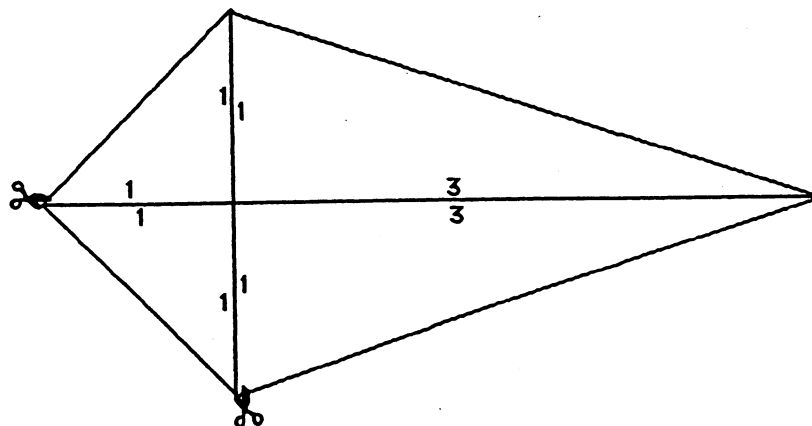


- ★★ 3. Paul Lynch holds the world record for one-arm push-ups. Paul once did 3,855 one-arm push-ups in five hours. On average, how many did he do in 1 hour?

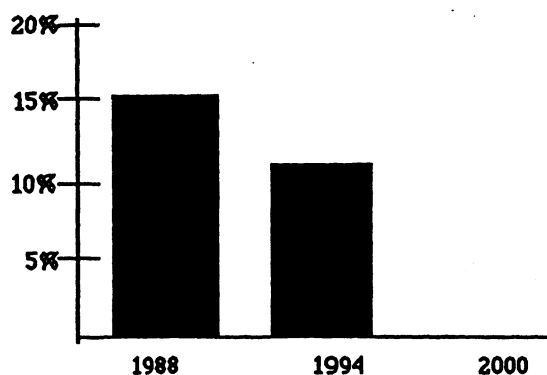
Answer: _____ push-ups

- ★★ 4. Trace over the figure of the kite below. Cut along the lines of your tracing that go from vertex to vertex so you have four triangles. Arrange these triangles so they make two quadrilaterals: a square and a rectangle. Find the perimeter of each quadrilateral.

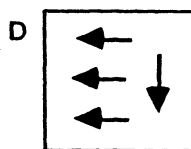
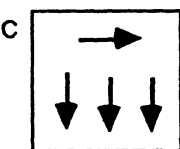
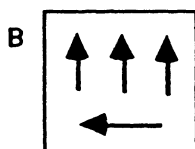
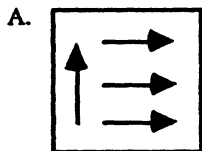
Perimeter of the square: _____ Perimeter of the rectangle: _____



- ★★ 5. The bar graph shows the percent of women who were members of elected parliaments or legislatures in 1988 and 1994. Fill in the graph to show the percent in the year 2000, if the decline is the same from 1994 to 2000 as it was from 1988 to 1994.



- ★★ 6. Circle the figure below -- B, C, or D -- that shows figure A rotated 270 degrees clockwise.



- ★★ 7. During the last week of school, a few students got the silly willies on Monday. On Tuesday, 2 more students than on Monday caught the silly willies. Each day after that, 2 more students than on the day before caught them. On Friday, 12 students caught them. How many students caught the silly willies in 5 days?

Answer: _____ students

- ★★ 8. Arrange the digits 1-7 in the squares so that no two consecutive digits are connected by a line.

