Name:	*			•	School:	
		Team	Numb	er:	*	

Event 1: Arithmetic

1. Bobby made a pizza for his family. His father cuts the pizza into /2 equal slices. If his mom and dad each take 1/4 of the pizza, and his three brothers each take 1//2 of the pizza, how many slices are left over for Bobby?

2. John and James went to the deli with their mother. Their mother buys three sandwiches, 3 bags of chips, and 3 juice boxes. James and John get one of each. The sandwiches cost \$2.99 each, the bag of chips cost \$1.25 each, and the juice boxes cost \$0.75 each. If their mother pays with a \$20.00 bill, what is her change?

5.03

3. Find the value of x using the equation below, when a=6 and b=1.

$$X = \frac{a^2 + \frac{1}{b} - b}{12 - a} \qquad \frac{b^2 + \frac{1}{1} - 1}{12 - c} = \frac{36}{6}$$

4. Pa Kou has 64 Tootsie Rolls. After she eats half of them, she gets a tummy ache, so she gives the rest to her friend, Lou. Lou only eats ¼ of her Tootsie Rolls and gives the rest to KaBao. KaBao eats 7 Tootsie Rolls, and gives the rest to Scott. How many Tootsie Rolls does Scott get?

$$64 - \frac{1}{2} = 32$$

$$32 \times \frac{1}{4} = 8$$

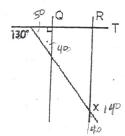
$$\frac{32}{-8} = \frac{24}{-7}$$

$$\frac{-7}{17}$$

$$17$$

Name:	School:				
*	Team Number:				
	Event 2: Geometry				
1. Which of the following	are necessary to create this shape?				
a. 4 [&1				
ъ. 3 [<u> </u>				
c. 4	2 & 2	\mathcal{D}			
(d) 5 [& 2				
• •		. V.			
Pac - Man is: What is the no	reflected over line AB then rotated 180 ew image?)°			
B					
a. S b. C	. 3 d. 5	_B_			

3. If Q is parallel to R, and T is perpendicular to Q and R, what does x equal?



140°

4. The perimeter of the equilateral triangle is 24 in. and one of its sides is the diameter of the circle. What is the area of the circle? Use $\pi = 3.14$



50.24

Vame:		School:	
	Team Number:		
	Event 3: Random	Hat	
1. If it takes one bloc	k to build a structure one l	evel high,	
four blocks to build	l a structure two levels hig	zh, 2×2 🗆	
and nine blocks to l	ouild a structure three leve	els high, DDDD]
how many blocks do	you need to build a struc	ture 9 levels high?	
		9×9	81
			· ·
2. Given the pattern 3,	6A, 9AB, 12ABC, what is	the 8th term?	
	5 IS ABCD 6 18 ABCDE		
	7 21 F 8 24 G		24 ABCD EFG
3. If $2! = 2 \times 1 = 2$			
$3! = 3 \times 2 \times 1 = 6$ and $4! = 4 \times 3 \times 2 \times 1$	= 24		
Find 6! - 5! - 4!			
6×5×4×3×2×1	- 51 - 41		
720	-120 -24		· = 2.
			576

4. Mr. Zoll's gym class is waiting in line to play kickball. Camey is first. Alley is three places behind her. Landon is in front of Savannah and two places behind Alley. Ralph is in front of Alley and five places in front of Mickey. Gavin is in front of Ralph, and Noah is in front of Landon. Who is the sixth person in line?

M S L NARGC

Landon

Name: _		School:	A
			E .
	Team Number:		

Event 4: Problem Solving

1. Bradley bought a bag of marbles listed at \$3.00. They were discounted at 15%. How much did he pay for the marbles?

2.55

2. Peter was so SMART! He got a 99% on his English test. Bobby was very jealous because he only got an 80%. 5 other students had scores: 93%, 98%, 88%, 82%, and 90%. What was the average score of the 7 children? Round to the nearest tenth.

90

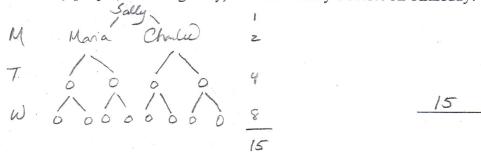
3. If little Frankie can run 10 yards every 5 seconds, how many yards can he run in 2.5 minutes?

$$\frac{2.5}{60} = \frac{\times}{150}$$

$$\frac{10}{5} = \frac{\times}{150}$$

300

4. Sally had a secret on Monday. She told her two best friends, Maria and Charlie. On Tuesday, Maria and Charlie told 2 more people each. If this pattern keeps going, how many people, including Sally, will know Sally's secret on Thursday?



CI -	
Score	

Name:	School:	
	Team Number:	5 5

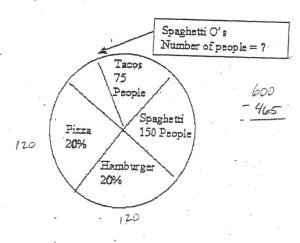
Team Event

If Jeremy is 2 times taller than Peter, and Peter is 1.5 times taller than Shane, Shane is 2 times taller than Baby Jack, Baby Jack is 5 inches shorter than Bee and Bee is 20 inches tall, then what is their total height in inches?



200

2. The picture shows the breakdown of what 600 students eat at lunchtime. How many students eat spaghettio's at lunch?



75

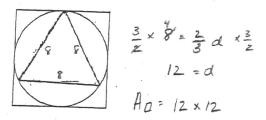
135

3. Simplify this expression.

$$\frac{7}{9} + \left(\frac{12}{15} \times \frac{1}{3}\right) + \frac{4}{9} = \frac{7}{9} + \frac{4}{15} - \frac{4}{9} = \frac{5}{9} + \frac{4}{15} = \frac{25}{45} + \frac{12}{46} \times \frac{1}{2} = \frac{27}{45} \times \frac{1}{2}$$

$$\frac{27}{90} = \frac{3}{10}$$
Answer: $\frac{3}{10}$

4. The perimeter of the equilateral triangle is 24 cm. If one side of the triangle is 2/3 of the diameter of the circle, then find the area of the square.



Answer: 144 cm 2

5. If 20x - 25 is expressed in the form a(4x-b), then find the value of a + b.

$$20x - 25 = a(4x - b)$$

 $20x - 25 = 4ax - ab$
 $5 = 26x = 4ax$ $25 = ab$ Answer: 10

6. In a magic square, the sum in every horizontal row, vertical column, and diagonal are the same. In this magic square, if the row total is equal to 15, then find the value of x.

	2	2x+1	6
5	. 9	5	1
	4		•

Answer: 3