April 17, 1998
Individual Contest, Grade 4

1. Evaluate: 
$$\frac{6}{13} + \frac{2}{13} + \frac{4}{13}$$

- 2. The sum of Triscia and Rhonda's age is 62. What will the sum of their ages be in 9 years?
- 3. Evaluate: 123 times 987
- 4. What number belongs in the blank? 8+7+6+5+4=2+3+4+5+\_\_\_
- 5. Evaluate:  $(1 \times 4) \div (2 \times 2) \times (6 \div 1) \div (2 \times 3)$
- 6. Pencils cost 57¢ each. How much will it cost, in dollars, to buy 9 pencils?
- 7. Evaluate: 92,134 43,226
- 8. What is the probability of rolling a 1, a 2, or a 4 on a six sided die?
- 9. Roy held his breath for 1 hour, 13 minutes and 18 seconds. How many seconds total did Roy hold his breath?
- 10. What time is 37 minutes before 12:30p.m.? (Answer must have a.m. or p.m.)

- Drew dropped 2 dozen eggs. How many total eggs did he drop?
   How many prime numbers are between 0 and 25?
   What is the product of the missing numbers? 1,0,2,0,3,0, \_\_, \_\_, \_
   Nicole paid 72¢ for 4 apples. How much did each apple cost in cents?
   Amanda earns a quarter each time she weeds the garden. One month she weeded the garden 9 times. How much money did she
  - month she weeded the garden 9 times. How much money did she earn in dollars?
  - 16. David collects marbles. So far, he has collected 18 dozen. How many total marbles does he have?
  - 17. Grandma Vicki planted a garden. She planted 12 rows of tomato plants. She planted 23 plants in each row. How many tomato plants did she plant?
  - 18. How many days are in the month of June?
  - 19. Caleb wants to read 35 pages each day during the month of August. How many pages would he read that month?
  - 20. Find two numbers whose sum is 20 and whose difference is 8?
  - 21. A cricket and flea decide to hop up a set of stairs. The flea takes 3 steps at a time. The cricket takes 5 steps at a time. The staircase has 20 steps. What is the first step they both land on assuming they start on the ground?
  - 22. If today is Wednesday, then 2 days before yesterday was \_\_\_\_?

- 23. Dayna is 60 inches tall and Shane is 72 inches tall. How many feet taller than Dayna is Shane?
- 24. Lisa has 6 red socks, 7 purple socks and 567 orange socks in drawer. How many single socks must she draw at random to ensure a matching pair of socks?
- 25. Tony has a cube six inches on a side. If he cuts the cube into smaller cubes 1 inch on a side, how many smaller cubes will he have?
- 26. Evaluate: 168 ÷ 168
- 27. How many seconds are in an hour?
- 28. Jean is reading <u>Heart of Darkness</u> by Joseph Conrad. If she can read 17 pages in a day, what is the least number of days it will take her to read the book given that the book is 73 pages long?
- 29. If A = 4 and B = 3. Evaluate: A+A+B+B+B+B
- 30. If  $A \odot B = Ax(A+B)$ . Evaluate:  $3 \odot 4$

April 17, 1998
Team Multiple Choice Contest, Grade 4

1.	I paid for my lunch with 5 quarters, 5 dimes, and 5 pennies. I could have paid for it with nickels?					
A) 8	B) 28	C) 637	D) 15	E) answ	ver not given	
2.	About how Elementar	_	the total	enrollme	nt at Math Is Cool	
	1st Grade	123	2 <sup>nd</sup> Grad	e 81	3 <sup>rd</sup> Grade 109	
	4 <sup>th</sup> Grade	131	5 <sup>th</sup> Grad	e 147	6 <sup>th</sup> Grade 141	
A) 400 B) 500 C) 600 D) 700						

3. Complete the following subtraction problem and find the value of  $\wp$  that makes the problem true.

A) 1 B) 2 C) 3 D) 4 E) answer not given

4. Each row, column, and diagonal of this magic square adds to 15. Use the numbers 2,3,5,6,8 and 9 to complete the magic square. What number goes in the starred box?

	-	4
7		
	1	☆

A) 9 B) 8 C) 3 D) answer not given

5. Since silence is golden, Mom is willing to pay for it. Mom will give 25¢ for every fifteen minutes that there is silence. How many hours of silence are needed in order for me to buy a \$50 Nintendo game?

A) 20 B) 40 C) 50 D) 200 E) answer not given

6. Hank has four spice harvesters that can each harvest three tons of spice per trip. How many tons of spice can be harvested in a week, if each harvester makes six trips per week?

A) 12 B) 18 C) 54 D) 72 E) answer not given

7. How many sides does a decagon have?

A) 7 B) 9 C) 10 D) 12 E) answer not given

- Find the number that makes the following true. 8.
  - 4 *\phi*
  - 6

- A) 2 B) 3 C) 6 D) 7 E) answer not given
- 9. How many counting numbers are between 17 and 46?

- A) 28 B) 30 C) 63 D) 29 E) answer not given

#### April 17, 1998 Team Contest, Grade 4

- Lonnie, J.R., and Nate play on a basketball team. Their positions are 1. forward, center, and guard.
  - A) Lonnie and the guard bought a present for Nate.
  - B) Lonnie is not the forward

What position does Nate play?

- 2. Scott's age is 4 times Kevin's. Greg's age is twice Kevin's. The sum of all 3 ages is 21. How old is Kevin?
- Number Ned is thinking of a number. 3.

- It is odd

- It is a multiple of 5

- It is between 1 and 100

- The sum of its digits is 7.

- It is higher than 20

- It is smaller than the answer to 6

times 6

What is the number?

- Brooke has 9 coins which have a total value of 48¢. How many pennies 4. does Brooke have?
- I am thinking of a number. Multiply the number by 2 then add 11. The 5. answer is 39. What is the number?
- At math camp, these are the choices for lunch. You have to pick one 6. from each category.

Meat

Potatoes

<u>Vegetables</u>

Steak

Mashed

Corn

Trout

Baked

Green Beans

French Fries

How many different meals could you have?

- 7. One and one fourth pies are left after dinner. For a snack the next day, Tealah and Amanda eat one-half of a pie. What's left over after their snack?
- 8. If farmer Lou has one pig that can eat 2 pounds of corn, how many pigs does it take to eat 32 pounds of corn?
- 9. Find the next number. 8, 11, 15, 20,\_\_\_\_
- 10. Kevin and Julie were working on a math problem. Kevin wrote  $\begin{array}{c} 4 & 5 \\ + & 9 & 6 \\ \end{array}$ but miscopied the 5. Julie wrote  $\begin{array}{c} 3 & 9 \\ + & 9 & 6 \\ \end{array}$  but miscopied the 3. What should the sum be?

Practice relay Person#1 2+15

Practice relay Person#2 TNYWG times 2

Practice relay Person#3 TNYWG + 6

Practice relay Person#4 TNYWG ÷4

Relay #1 Person#1 24 - 18

Relay#1 Person#2 TNYWG times 2

Relay#1 Person#3 TNYWG ÷4

Relay#1 Person#4 TNYWG times 0

Relay#2 Person#1 10 times 10

Relay#2 Person#2 TNYWG ÷4

Relay#2 Person#3 TNYWG ÷5

Relay#2 Person#4 TNYWG + 17

April 17, 1998 Mental Math - Grade 4

#### Person #1

- 1. What is the product of 9 and 7?
- 2. What is the sum of 11 and 23?
- 3. What is 56 divided by 8?
- 4. What is the perimeter of a equilateral triangle with side length 5?

#### Person #2

- 1. What is the product of 6 and 8?
- 2. What is the difference between 34 and 12?
- 3. What is 27 divided by 3?
- 4. How many seconds are in 2 ½ minutes

#### Person#3

- 1. What is the product of 5 and 11?
- 2. What is the difference between 31 and 16?
- 3. What is 39 divided by 13?
- 4. How many single eggs are in 7 dozen?

#### Person#4

- 1. What is the product of 4 and 12?
- 2. What is the sum of 68 and 12?
- 3. What is the difference between 33 and 8?
- 4. How many quarters are in 5 dollars?

April 17, 1998 - Grade 4
College Knowledge Bowl Questions #1

1.	What is 1 + 3 + 4 + 12 + 15 ?
Ans	wer: 35
2.	
Ans	wer: 24
3.	How many inches are in 4 yards?
Ans	wer: 144
4.	What is 5 × 4 × 7 × 2 ?
Ans	wer: 280
5.	What is the sum of the thousands' digit and the tens' digit of 12,345? (Read number as 12 thousand 3 hundred forty-five) wer: 6
6.	What is the remainder when 315 is divided by 8?
Ansı	wer: 3
7.	Jo had 3 dozen single socks in her drawer, but she lost 2 pairs. How many single socks does she have in her drawer now?
Ansı	wer: 32
Extr	a Question: What is the perimeter of a rectangle with sides of 8 and 5?
Ansı	wer: 26

April 17, 1998 - Grade 4
College Knowledge Bowl Questions#2

1.	What do I get if I multiply 14 by 14 and then divide the result by 14?
Ans	wer: 14
2.	What comes next in the sequence? 12, 15, 18, 21,
Ans	wer: 24
3.	What is the perimeter of a triangle with sides 14, 23 and 12?
Ans	wer: 49
4. occi	If four people all shake hands with each other once, how many handshakes ur?
Ans	wer: 6
5.	What is the value in dollars of 3 quarters, 4 dimes, 6 nickels and 8 pennies?
Ans	wer: \$1.53
6.	The sum of two consecutive odd numbers is 20. What is the biggest number?
Ans	wer: 11
7.	What is the probability of rolling an even number on a regular die?
Ans	wer: ½ or 3/6
	ra Question: What is the probability of drawing a king or a queen from a dard deck of cards?
Ansı	wer: 2/13 or 4/26 or 8/52

April 17, 1998 - Grade 4
College Knowledge Bowl Questions #3

1.	What is the sum of 3 fives?
Ans	wer: 15
2.	What time is it 32 minutes before 6:10 p.m.?
Ans	wer: 5:38 p.m.
3.	94 is 49 more than what number?
Ans	wer: 45
4.	While signing a book, Grace used all the letters in the alphabet that came after b but before y. How many letters did she use?
Ans	wer: 22
5.	How many ways can you arrange the letters in the word "MOM"?
Ansı	wer: 3
6.	What is the product of the first 3 prime numbers?
Ansı	wer: 30
7.	What is 99 + 99 + 101 + 101 + 101?
Ansı	wer: 600
Extr legs	a Question: Tom sees 6 cows and 3 chickens in the barn. How many total are there?
Ansı	ver: 30

### Math Is Cool" Championships -- 1997-8

4th Grade - April 17, 1998

School Name	Team #
Proctor Name	Room #



Fι	Ш	١	Jame	

1<sup>st</sup> Score

Out of 30

#### Individual Contest - Score Sheet

#### DO NOT WRITE IN SHADED REGIONS

	Answer		
1.	12/13		
2.	80	The state of the s	
3.	121401		
4.	16		
5.	1		
6.	(\$)5.13		-
7.	48,908		
8.	½ or 3/6		
9.	4398(seconds)		
10.	11:53 a.m.	track of the state	
11.	24(eggs)		à
12.	9		
13.	0		
14.	18(¢)		
15.	(\$)2.25		

	Answer	
16.	216(marbles)	
17.	276(plants)	
18.	30(days)	
19.	1085(pages)	
20.	6 and 14 order doesn't matter	
21.	15(th step)	
22.	Sunday	
23.	1 (foot)	 
24.	4(socks)	
25.	216(cubes)	
26.	1	
27.	3600(sec)	
28.	5(days)	
29.	23	
30.	21	

# Math Is Cool" Championships -- 1997-8 4th Grade - April 17, 1998

School Name	Team #
Proctor Name	Room #



### Team Multiple Choice Contest-Score Sheet

Correct responses are worth 2 points, incorrect responses are worth -1 point and no response is 0 points.

1 <sup>st</sup> Score	

Out of 18

#### DO NOT WRITE IN SHADED REGIONS

	Answer		
1.	E		
2.	D		
3.	Α		
4.	В		
5.	С	The second secon	
6.	D		
7.	С		
8.	Α		
9.	A		

# Math Is Cool" Championships -- 1997-8 4th Grade - April 17, 1998

School Name	Team #
Proctor Name	Room #



Team	Con	test	-Score	Shee	<b>&gt;</b> +
1 Eun		1631	- JLUI E		_

1 <sup>st</sup> Score	

Out of 10

#### DO NOT WRITE IN SHADED REGIONS

	Answer	
1.	Forward	
2.	3	
3.	25	
4.	3	
5.	14	
6.	12	
7.	3/4	
8.	16	
9.	26	
10.	145	

# Math Is Cool" Championships -- 1997-8 4th Grade - April 17, 1998

	1
School Name	Team #
Proctor Name	Room #



### Mental Math - Score Sheet

<b>A</b> .	1.	63
		34
	3.	7
	4.	15
	 1	40
B.		48 22
	2. 3.	
	3. 4.	
- <b></b>	·	
<b>C</b> .	1.	55
	2.	15
	3.	3
	4.	84
D.	1.	48
		80
	3.	25
	4.	20

### Math Is Cool" Championships -- 1997-8

4th Grade - April 17, 1998

School Name	Team #
Proctor Name	Room #



Relay Contest - Score Sheet

Practice relay

10

Answer for relay #1

0

Answer for relay #2

22