

"Math is Cool" Championships - 2007-08

Sponsored by:

5th Grade - April 25, 2008

Individual Contest

GENERAL INSTRUCTIONS applying to all tests:

- *Good sportsmanship is expected throughout the competition by all involved. Bad sportsmanship may result in disqualification.*
- *Calculators or any other aids may not be used on any portion of this contest.*
- *Unless stated otherwise:*
 - *For problems dealing with money, a decimal answer should be given.*
 - *Express all rational, non-integer answers as reduced common fractions.*
- *For fifth and sixth grade, all fractions and ratios must be reduced.*
- *Units are not necessary unless it is a problem that deals with time and, in that case, am or pm is needed. However, if you choose to use units, they must be correct.*
- *Leave all answers in terms of π where applicable.*
- *Do not round any answers unless stated otherwise.*
- *Record all answers on the colored cover sheets in the answer column only.*
- *Make sure all answer sheets have all the information filled out at the top of the sheet.*
- *Tests will be scored as a 0 if answers are not recorded correctly on the answer sheets.*
- *Blank answer sheets and answer sheets with no name will also be scored as a 0.*

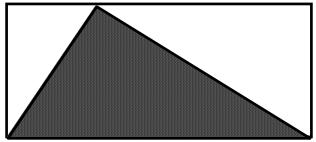
INDIVIDUAL TEST - 35 minutes

When you are prompted to begin, tear off the colored sheet and begin testing. Make sure your name and school are recorded on the answer sheet. Each problem is scored as a 1 or 0. Record your answers on the score sheet. No talking during the test. You will be given a 5 minute warning.

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Record all answers on the colored cover sheet.

1	Find the value of $(4 + 13) - (2 + 5)$.
2	James and Emily add their secret numbers and get Lisa's secret number. Lisa has the same secret number as James. What is Emily's secret number?
3	If I can buy two puzzles for \$8 and every puzzle is the same price, how many dollars would I have to pay for three puzzles?
4	A circle's radius is 22 centimeters. What is its diameter, in centimeters?
5	When the two smallest two-digit counting numbers are multiplied together, what is their product?
6	Jilly draws a square with an area of 36 square inches. She then erases one of the sides of the square. What is the total length in inches of the three remaining sides?
7	Find the sum: $9,000,006 + 400,000 + 30,200 + 50$
8	The counting numbers (also called natural numbers) are the numbers 1, 2, 3, and so on. How many counting numbers less than 20 are even?
9	Find the sum of one 1, two 2s, and three 3s.
10	In the pattern CATDOGCATDOGCA..., what would be the 28 th letter?
11	Sam grew a fifty-pound squash, Josh grew a 647-ounce pumpkin, and Cam grew a zucchini a tenth the weight of Josh's pumpkin. Who grew the heaviest vegetable?
12	Evaluate: 19 minus 27.
13	Janet, Liz, and Natasha are hiking. Each hiker has a walking stick taller than herself. Liz is taller than Natasha's walking stick, and Natasha is shorter than Janet's walking stick. Natasha's stick is taller than Janet's stick. Which hiker is tallest?
14	Find the product of the four smallest counting numbers whose ones-place digit is 0.
15	Probability Barn sells urns, colored marbles, and standard 52-card decks of cards. Daniel rolls a fair six-sided (cubical) die. He will buy an urn if the number showing is even, a marble if it is prime, and a deck of cards if it is odd. As a reduced fraction, what is the probability that Daniel will buy both a marble and a deck of cards?
16	How much more is one-half of 100 than one-fourth of 200?
17	The shaded triangle has area 3 square units. What is the number of square units in the area of the circumscribed rectangle? 
18	If three angles of a quadrilateral are 28, 102, and 95 degrees, what is the degree measure of the fourth angle?

19	Find the missing term: 100, 50, 25, ____, $\frac{25}{4}$, $\frac{25}{8}$
20	Sally and Christy are moving rocks to dam a river. Sally can move three huge rocks every hour and Christy can move four big rocks every half-hour. Either of them can move one huge rock as quickly as two big rocks. How many hours will it take them to move 21 huge rocks? If your answer is not a whole number, give it as a decimal.
21	What is the sum of the factors of 12? (A factor of 12 is a counting number that will divide into 12 with no remainder.)
22	Farmer Ethigan keeps cats. Every day his cats eat 30 mice. A big cat eats twice as many mice as a little cat, and he has twice as many big cats as little cats. How many little cats does he have?
23	A tornado travels at 55 miles per hour. How many minutes does it take to travel 220 miles?
24	Find the area of this figure, in square units. (Every angle inside the figure is a right angle, or 90° .)
25	The probability that a Cougar fan will be wearing a crimson and gray T-shirt at a basketball game is $\frac{5}{9}$. If 12,600 Cougar fans come to today's game, how many of them would you expect to be wearing crimson and gray T-shirts?
26	I have two numbers in mind. The second number is four more than ten times the first number. The difference between my two numbers is 22. What is their sum?
27	Give the value of $9\frac{1}{2} + 6\frac{1}{3} - 4\frac{1}{4}$ as a simplified mixed number.
28	How many of the following six expressions have a value greater than 1? (a) two-halves (b) $(0.34) \times 3$ (c) $\frac{9}{7}$ (d) $\frac{1}{1000}$ (e) five-fourths (f) 99.9%
29	What is the number of units in the perimeter of a rectangle with a length of 18 units and an area of 252 square units?
30	Nascar racers typically average 180 miles per hour (mph) over a race. If Tony Stewart averaged 200 mph for his first 4 laps, what is the slowest speed in mph he can travel in his fifth lap to average at least 180 mph for the 5 laps?

Challenge Questions

31	My dog is twice as old as my cat. Three years ago, my dog was three times as old as my cat. How many years old will my cat be when my dog is only $1\frac{1}{2}$ times as old as my cat?
32	Right now it is 50.1° outside. It was 68.5° two hours ago. If it continues cooling at the same rate, what temperature will it be in 45 minutes? Give your answer as a decimal number of degrees, to the nearest tenth of a degree.
33	How many twos do I need to multiply together to make a number bigger than 10,000?
34	A perfect square is a number you get by multiplying a counting number by itself. For example, $4 = 2 \times 2$ and $36 = 6 \times 6$ are both perfect squares. What is the smallest perfect square bigger than 375 that has all its digits different?
35	When Vance learned to dance, he had dance class every third day. The class's first session was on a Monday, the second was on a Thursday, and so on. By the time Vance had finished the second session that met on a Tuesday, how many times had the class met?
36	Two cars are in lanes side by side at an intersection, going the same direction. One car goes 30 miles per hour (mph) and the other car goes 25 mph. The faster car reaches the next intersection in one minute. When the fast car is at the intersection, how far, in miles, does the slower car still have to go before reaching this intersection? If your answer is not a whole number, give it as a reduced fraction.
37	Jina has some red cards, each labeled "7", and some blue cards, each labeled "3". The total value of all the numbers on Jina's cards is 100. If she has more red cards than blue cards, how many cards does Jina have in all?
38	A palindrome is a counting number that reads the same backwards as forwards. What is the second-smallest 5-digit palindrome that can be divided by 3 with no remainder?
39	Nam has five different shirts, three ties, two pairs of pants, and two pairs of shoes. An outfit is a shirt, pair of pants, pair of shoes, and possibly a tie. What is the positive difference between the number of outfits Nam can make when he doesn't have to wear a tie and the number of outfits he can make when he does have to wear a tie?
40	Cam and Joel each had at least one apple. Cam gave half of his apples to Joel. Then Joel gave two-thirds of all his apples to Cam. Cam now has 10 apples. How many apples do they have altogether if only whole apples are exchanged? Give all possible answers.

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Team Multiple Choice Contest

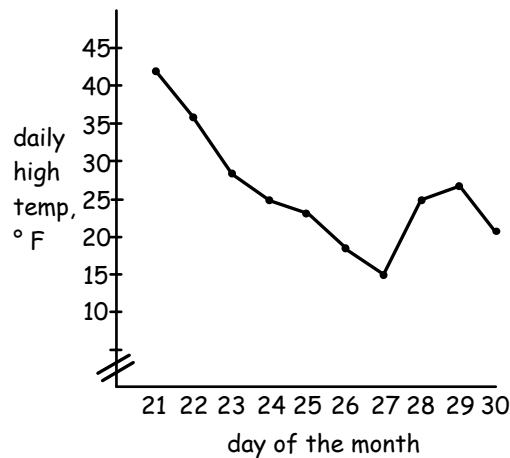
The Meteorology Club at Windyways Elementary School kept track of the weather for the month of November. Each day of the month was classified in only one of four categories: mostly sunny, mostly cloudy, rainy, or snowy. Days called "mostly sunny" or "mostly cloudy" had no rain or snow, and no day had both rain and snow. The numbers of days of November in each category are shown in the table at right (some data missing).

conditions	number of days
mostly sunny	12
mostly cloudy	4
rainy	
snowy	8

The table at left below summarizes the daily high temperature (in degrees Fahrenheit, °F) for the first 20 days of November, giving the number of days in which the high temperature was in each 10-degree interval. The graph at center below shows each day's high temperature for the last 10 days of the month.

Students also recorded the number of inches of rain or snow. The rainfall and snowfall records are shown at right below, with the month divided into groups of 5 days and the total rain or snow given for each group of 5 days.

daily high temp, °F	number of days
10-20	0
20-30	1
30-40	7
40-50	8
50-60	2
60-70	2



days	rain, inches	snow, inches
Nov 1-5	0.5	0
Nov 6-10	0.7	0
Nov 11-15	1.1	2.0
Nov 16-20	0.3	8.8
Nov 21-25	0	15.3
Nov 26-30	0	3.5

1	On how many days in November did it rain? A) 0 B) 20 C) 7 D) 4 E) 6
2	For all of November, the largest number of days fell in which daily high temperature category? A) 10-20°F B) 20-30°F C) 30-40°F D) 40-50°F E) answer not given
3	The median daily high temperature for the last 10 days of November was closest to which of the following? A) 21°F B) 23°F C) 25°F D) 27°F E) 29°F
4	Freezing is 32°F. What is the smallest possible number of days in November that the high temperature did not get above freezing? A) 1 B) 7 C) 8 D) 9 E) answer not given

5	Wendy made a pie chart showing the number of days in November that fell in the different categories for daily high temperature. How many degrees should be in the central angle for the part of the chart showing number of days in the category "30-40°F"? A) 96° B) 30-40° C) 60° D) 84° E) answer not given
6	Between which two days in the last ten days of November did the daily high temperature change most? A) Nov 21-22 B) Nov 22-23 C) Nov 26-27 D) Nov 27-28 E) Nov 29-30
7	What was the average (mean) number of inches of snow that fell on each day in November that it snowed? A) 7.4 B) 3.7 C) 1.475 D) 6.5 E) 0.98
8	Precipitation (in inches) is the amount of rainfall plus the amount of liquid water produced from melted snow. One estimate of the amount of water produced by melted snow is that it takes 10 inches of snow to produce 1 inch of liquid water. Using this estimate, what was the total precipitation for November, rounded to the nearest tenth of an inch? A) 3.2 B) 2.9 C) 5.6 D) 6.0 E) 3.0
9	A better conversion estimate for the light, dry snow that fell at Windyways Elementary School is that it takes 13 inches of snow to produce 1 inch of liquid water. Using this estimate, during which 5-day period in November was the total precipitation highest? A) Nov 6-10 B) Nov 11-15 C) Nov 16-20 D) Nov 21-25 E) Nov 26-30

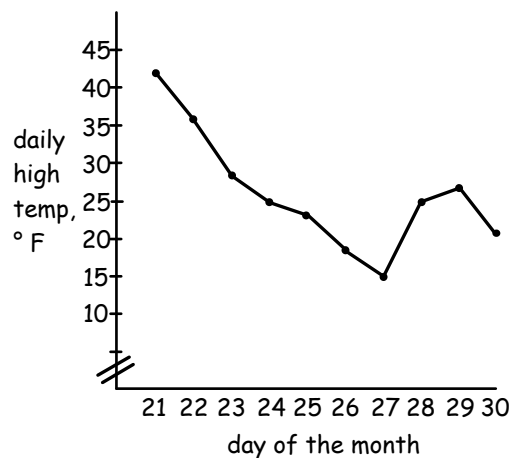
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30-40	7
40-50	8
50-60	2
60-70	2



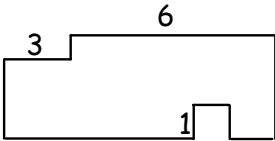
days	rain, inches	snow, inches
Nov 1-5	0.5	0
Nov 6-10	0.7	0
Nov 11-15	1.1	2.0
Nov 16-20	0.3	8.8
Nov 21-25	0	15.3
Nov 26-30	0	3.5

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Team Contest

1	One letter is picked at random from the word CAT, and one letter is picked at random from the word KITTEN. You are x times as likely to get a "T" from KITTEN as from CAT. What is x ?
2	 All corners in the figure shown are square (right angles). What is the number of units in the perimeter of this figure? (The figure may not be drawn to scale.)
3	Three different odd digits are used to form a 1-digit counting number and a 2-digit counting number, which are then multiplied together. What is the largest possible product that could result?
4	The buttons numbered 2, 3, 4, 5, 6 and 8 on my telephone handset each have three letters, and the buttons numbered 7 and 9 each have four letters. The letters are in alphabetical order (eg, abc on button number 2, def on button number 3, and so on in order of the numbers). What is the sum of the numbers on the buttons I use when I dial HEXAGON?
5	What number is three times the average of 84 and 20?
6	A display in a grocery store offered free samples of a new juice blend. Each sample was one-fourth of a cup (2 fluid ounces). In half an hour, 8 people each took 1 sample. At this rate, how many hours would a gallon of juice last? (A pint is equal to 16 fluid ounces.) If your answer is not a whole number, give it as a mixed number.
7	I have one 37¢ stamp, ten 1¢ stamps, eight 3¢ stamps, and six 2¢ stamps. In how many ways can I make exactly 41¢ postage?
8	The letter A stands for a counting number greater than 1 but less than 10. Neither $\frac{A}{10}$ nor $\frac{A}{12}$ can be simplified further. What does letter A stand for?
9	Joyce and Karen both leave point A at 1:25 PM, traveling the same road at constant speeds toward point B, 20 miles away. Joyce is riding a bike and Karen is driving a car at a speed 5 times that of the bike. As Karen reaches the halfway point, she gets a cell phone call from Joyce to say the bike has just broken down. Karen returns to pick up Joyce (who is stopped), taking 5 minutes to load the bike and leave again. If they reach their destination at 2:10 PM, what is the speed of the car (in miles per hour) when it is moving?
10	The product of $A \times 8$ is 104. The product of $7 \times B$ is 49. What is the product of $A \times B$?

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Relay Contest

RELAYS - 5 minutes per relay

	Practice Relay	Answer
Person 1	What is $2 + 2$?	4
Person 2	Multiply TNYWG by 5.	20
Person 3	Divide 100 by TNYWG.	5
Person 4	Subtract 6 from TNYWG.	-1
	Relay #1	Answer
Person 1	The faces of a standard die (number cube) are numbered 1, 2, 3, and so on as usual. What is the probability of rolling "1" with a single roll of this die? Give your answer as a fraction.	$\frac{1}{6}$
Person 2	In a group of 48 mathletes, only TNYWG of the whole group did not brush their teeth today. How many mathletes brushed their teeth today?	40 [mathletes]
Person 3	Take TNYWG and subtract the mean (average) of the following numbers: 36, 38, 40, 38.	2
Person 4	Multiply TNYWG by the number of inches in two yards.	144 [in]
	Relay #2	Answer
Person 1	Andrea has 1 penny, 5 nickels, and 10 dimes in her coin purse, and no other coins. She takes coins out of the purse one by one without looking at them. How many coins would she need to take out to be sure that she has two coins that have the same value?	4 [coins]
Person 2	Evaluate $\frac{4 \times 5 \times 6}{12}$, and then multiply by TNYWG. Express your answer in simplest form.	40
Person 3	Find the positive difference between TNYWG and the range of the following set of numbers: 2, 14, 6, 8, 26, 1, 7. (To find the positive difference between two numbers, subtract the smaller number from the larger number.)	15
Person 4	Multiply TNYWG by the number of different ways to arrange the letters in the name ANNA.	90 [ways]

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Final Score:

KEY

School Name _____ Team # _____

Proctor Name _____ Room # _____ Division: _____

Mental Math Contest

PERSON 1 NAME:		1 or 0
1.1	Add the following fractions and simplify your answer: one-sixth plus three-sixths.	2/3
1.2	How many sides does a quadrilateral have?	4 [sides]
1.3	What is the largest whole number that divides into both twelve and twenty-four with no remainder?	12
1.4	What time is it one hundred minutes after seven ten PM?	8:50 PM
PERSON 2 NAME:		
2.1	How many positive whole numbers divide into 29 with no remainder?	2 [num]
2.2	If Miya and Helen together can write two mental math questions in ten minutes, how many mental math questions can they write in three hours?	36 [ques]
2.3	Harold has three nickels and 2 dimes in his pocket. How many coins must he take out to guarantee that he gets at least fifteen cents?	3 [coins]
2.4	What is the sum when you add 22 to half of 22?	33
PERSON 3 NAME:		
3.1	How many days are in two weeks and three days?	17 [days]
3.2	What is the remainder when 58 is divided by 5?	3
3.3	Find the perimeter of a rectangle, given that the area is twenty-eight square units and one side length is seven units.	22 [units]
3.4	Charlie is making cookies. He will make either chewy or crunchy cookies, and he will use either chocolate chips or nuts, or maybe both. How many types of cookies can Charlie make?	6 [types]
PERSON 4 NAME:		
4.1	If twice my number is equal to sixteen, what is half of my number?	4
4.2	What is the sum in degrees of the interior angles of a square?	360 [deg]
4.3	What is the probability of drawing an ace from a standard fifty-two-card deck in one random draw? Give your answer as a simplified fraction.	1/13
4.4	Cam licks a lollipop at a rate of fifteen licks a minute. If he finishes the lollipop with 75 licks, how many minutes does it take him to finish?	5 [min]

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Division 1

COLLEGE KNOWLEDGE BOWL ROUND #1

#	Problem	Answer
1	What is the largest counting number you could multiply by eighty-eight and still get a product less than one thousand?	11
2	A domino is a rectangle divided into two squares. Each square has a number of dots or spots on it, ranging from zero (blank) up through six. Gibson has four dominoes in his hand: double-four, blank-five, four-five, and double-six. How many dots or spots are there on all the dominoes in Gibson's hand?	34 [spots]
3	Two consecutive months have a total of sixty days. Name the month that <u>must</u> be one of those two months.	February
4	When counting by fives, what is the eighth number I will say if the first number I say is two?	37
5	Sydney wrote a list of the first fifty counting numbers in order, starting with one. She then crossed out all even multiples of three. What was the twentieth number on the remaining list?	23
6	How many quarters does it take to make twenty-four dollars and fifty cents?	98 [quarters]
7	A rectangle has a base of nine inches and height one foot. A diagonal is drawn in this rectangle to divide it into two equal triangles. One triangle is colored red. What is the number of square inches in the area colored red?	54 [sq in]
	Extra Problem - Only if Needed	
8	Evaluate: three divided by six times twelve.	6

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Division 1

COLLEGE KNOWLEDGE BOWL ROUND #2

#	Problem	Answer
1	Melanie labels six petri dishes per hour, Allison labels ten petri dishes per hour, and Sara labels eight petri dishes per hour. Working together, how many hours does it take for all three girls to label seventy-two petri dishes?	3 [hours]
2	How many years are there in two centuries plus three decades minus fourteen years?	216 [years]
3	Each leaf of a book is printed on both sides to make two pages. Some leaves are missing from an old book I found. In this book, page 28 is next to page 37. How many leaves are missing between page 28 and page 37?	4 [leaves]
4	A group of three numbers has a mode of six and a mean or average of five. What is the smallest of these three numbers?	3
5	Eva has fifty percent more money than Frank. If Eva has twelve dollars, how many dollars does Frank have?	8 [dollars]
6	What is the digit in the tens place of ninety-three thousand four hundred fifty-eight?	5
7	An intersection point is the point where two geometric figures cross each other. What is the largest number of intersection points there could be with three circles of different sizes?	6 [points]
	Extra Problem - Only if Needed	
8	How many millimeters are in two meters?	2000 [millimeters]

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Division 1

COLLEGE KNOWLEDGE BOWL ROUND #3

#	Problem	Answer
1	Bill Gates gave a billion dollars to charity last year. If he wrote checks for one thousand dollars each, how many checks would he need to write to give away this much money?	1 million [checks]
2	Gloria has a paperweight in the shape of a pyramid. The base of the pyramid is a square. How many faces does Gloria's paperweight have?	5 [faces]
3	How much more than two thousand eight is eight thousand two?	5994
4	How many ways can five identical gold bars be divided among three friends if each friend gets at least one gold bar and there are none left over?	6 [ways]
5	What is the sum of the two missing numbers in the addition sequence four, <u>BLANK</u> , <u>BLANK</u> , thirteen, sixteen?	17
6	My sixteen-ounce water bottle is three-quarters full. What fraction of the water in a full twelve-ounce water bottle must I pour into my sixteen-ounce water bottle in order to finish filling it?	$\frac{1}{3}$
7	Tony has four dozen tadpoles. This is 17 more tadpoles than Jimmy has. How many tadpoles does Jimmy have?	31 [tadpoles]
	Extra Problem - Only if Needed	
8	What is one minus two plus three minus four plus five minus six plus seven?	4

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Division 2

COLLEGE KNOWLEDGE BOWL ROUND #1

#	Problem	Answer
1	Sixty days is four days longer than "X" weeks. What is X?	8
2	Janet goes to the Mini-Subway shop to buy a sandwich with one kind of bread, one kind of meat, and one vegetable. The only kinds of bread available are white and wheat, the only kinds of meat are turkey and ham, and the only vegetables are lettuce and tomatoes. How many different sandwiches can Janet buy?	8 [sandwiches]
3	One bacteria cell is put in a dish. After each hour, the number of cells doubles. How many cells are there after five hours?	32 [cells]
4	Helen got 18 mosquito bites yesterday. Miya got only one-sixth as many bites as Helen. How many bites did they get in all?	21 [bites]
5	How many of the first 100 counting numbers have a zero in the ones place?	10 [numbers]
6	I have seventy-two dollars. If I give five dollars to each of my five friends, how many dollars will I have left?	47 [dollars]
7	What is the smallest counting number that is both a multiple of seven and one less than a prime number?	28
	Extra Problem - Only if Needed	
8	How many degrees does the minute hand of a clock move in half an hour?	180 [degrees]

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Division 2

COLLEGE KNOWLEDGE BOWL ROUND #2

#	Problem	Answer
1	Find the smallest counting number that can be divided by six, twelve, or twenty with no remainder in each case.	60
2	A rectangle has a length of nine feet and a width of three yards. What is the area of this rectangle, in square yards?	9 [sq yds]
3	What is the digit in the tens place of the sum of ninety-five and forty-two?	3
4	A school bus has twenty passenger seats. Each seat can hold two people. If ten kids enter an empty bus and sit down, what fraction of the passenger seating is full?	$\frac{1}{4}$
5	Find the least number of fives that Kenny could multiply together to get a product greater than one hundred.	3 [fives]
6	A stop sign has the shape of an octagon. How many sides does an octagon have?	8 [sides]
7	When you double my number and subtract 6, the result is 30. What is my number?	18
	Extra Problem - Only if Needed	
8	The first prime number is 2. What is the sum of the third, fourth, and fifth prime numbers?	23

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Division 2

COLLEGE KNOWLEDGE BOWL ROUND #3

#	Problem	Answer
1	I am thinking of an odd number less than fifty. My number is the product of a counting number times itself. How many different numbers could I be thinking of?	4 [numbers]
2	I multiply my number by twelve, then subtract eleven from the product. I get forty-nine. What is my number?	5
3	What time is it one hundred twenty seconds after twelve twenty-four PM?	12:26 PM
4	What is half of half of sixty-eight?	17
5	What fraction of the months in the year have a name starting with the letter "M"?	$\frac{1}{6}$
6	If Miya can walk 9 kilometers in an hour and a half, at that rate, how many kilometers could she walk in one hour?	6 [km]
7	I have three cookies: one chocolate, one vanilla, and one coconut. How many ways can I give one cookie each to Alex, Bob, and Carrie?	6 [ways]
	Extra Problem - Only if Needed	
8	When I subtract my number from 20, I get a 2-digit number with both digits the same. If my number is greater than zero, what is my number?	9

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Final Score:
KEY

First Score

School Name _____ Team # _____

Proctor Name _____ Room # _____

STUDENT NAME _____ **Division:** _____

Individual Contest - Score Sheet

DO NOT WRITE IN SHADED REGIONS

	Answer	1 or 0	1 or 0
1	10		
2	0		
3	[\$] 12		
4	44 [cm]		
5	110		
6	18 [inches]		
7	9,430,256		
8	9		
9	14		
10	D		
11	Sam		
12	-8		
13	Liz		
14	240,000		
15	1/3		
16	0		
17	6 [sq units]		
18	135 [° or degrees]		
19	25/2		
20	3 [hours]		

	Answer	1 or 0	1 or 0
21	28		
22	1,2,3 or 6 [cats - only needs one answer]		
23	240 [minutes]		
24	18 [sq units]		
25	7000 [fans]		
26	26		
27	$11\frac{7}{12}$		
28	3 [expressions]		
29	64 [units]		
30	100 [mph]		
31	12 [years]		
32	43.2 [° or degrees]		
33	14 [twos]		
34	529		
35	13 [times]		
36	1/12 [mile]		
37	16 [cards]		
38	10401		
39	20 [outfits]		
40	13, 14 [apples] [both answers needed]		

"Math is Cool" Championships - 2007-08

5th Grade - April 25, 2008

Final Score:
KEY

School Name _____ Team # _____

First Score

(out of 18)

Proctor Name _____ Room # _____ Division: _____

Team Multiple Choice Contest - Score Sheet

TEAM MULTIPLE CHOICE - 15 minutes

This test is the only test where you will be penalized for incorrect responses. You will receive 2 points for a correct letter response, 0 points for leaving it blank and -1 point for an incorrect response. When you are prompted to begin, tear off the colored sheet, pass out a copy of the test to each team member, and begin testing. Since this is a multiple choice test, ONLY a letter response should be listed as an answer on the answer sheet.

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

DO NOT WRITE IN SHADED REGIONS

	Answer	-1, 0 or 2	-1, 0 or 2
1	E		
2	D		
3	C		
4	D		
5	A		
6	D		
7	B		
8	C		
9	B		

"Math is Cool" Championships - 2007-08

5th Grade - April 25, 2008

Final Score:
KEY

School Name _____ Team # _____

First Score
(out of 20)

Proctor Name _____ Room # _____ Div: _____

Team Contest - Score Sheet

TEAM TEST - 15 minutes

When you are prompted to begin, tear off the colored sheet and give a copy of the test to each of your team members and begin testing. Each problem is scored as a 2 or 0.

DO NOT WRITE IN SHADED REGIONS

Answer		2 or 0	2 or 0
1	1		
2	28 [units]		
3	675		
4	34		
5	156		
6	4 [hours]		
7	9 [ways]		
8	7		
9	54 [mph]		
10	91		

"Math is Cool" Championships -- 2007-08

KEY

5th Grade - April 25, 2008

School: _____ Team # _____

Proctor: _____ Room # _____ Div _____

PRACTICE RELAY

Answer for person # 1	Answer for person # 2	Answer for person # 3	Answer for person # 4
4	20	5	-1
1 or 0	1 or 0	1 or 0	2 or 0

RELAY # 1

Answer for person # 1	Answer for person # 2	Answer for person # 3	Answer for person # 4
1/6	40 [mathletes]	2	144 [in]
1 or 0	1 or 0	1 or 0	2 or 0

RELAY # 2

Answer for person # 1	Answer for person # 2	Answer for person # 3	Answer for person # 4
4 [coins]	40	15	90 [ways]
1 or 0	1 or 0	1 or 0	2 or 0