"Math is Cool" Masters – 2007-08

Sponsored by:

6th Grade – May 17, 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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Individual Contest

Record all answers on the colored cover sheet.

1	Two angles in a triangle are 37 degrees and 55 degrees. What is the degree measure of the other angle?
2	What is the number of units in the perimeter of a pentagon with 3 sides of length 8 units each, and 2 sides whose lengths average to 6 units?
3	What is the 73rd letter in the pattern MATHISCOOLMATHISCOOLMA…
4	What is the volume, in cubic feet, of a rectangular prism with dimensions ten feet, twelve feet, and fourteen feet?
5	What is the maximum number of times a circle can intersect a triangle?
6	Find the average of the following values: 3, 5, 7, 8, and 2.
7	Simplify by eliminating all radicals: $\sqrt{20+\sqrt{22+\sqrt{2+\sqrt{49}}}}$
8	Eho's school has 15 steps between each floor, but no steps are required to enter the building on the first floor. Eho's 1st period class is on the first floor, his 2nd period class is on the 4th floor, and his 3rd period class is on the 2nd floor. After 3rd period Monday, he left for a dentist appointment and stayed home the rest of the day. How many steps at school did Eho go up or down on Monday?
9	Frank has cows and chickens in a field. There are 27 heads and 78 feet. How many cows are in the field?
10	Shane is headed to Seattle from Spokane, which is 280 miles away. He was scheduled to stop at Moses Lake in order to pick up supplies. However, he didn't remember until he was 35 miles past Moses Lake. He traveled back and got his supplies. What is the total number of miles he drove before he arrived in Seattle?
11	True or False: The sum of two prime numbers is always even.
12	What is the hundreds digit of the quotient of 76,842 divided by 3?
13	Tom has 7 green socks, 3 purple socks, and 5 red socks in a drawer. What is the minimum number of socks he would need to take out of the drawer without looking to guarantee a matching pair of purple socks?
14	Twenty-five years ago, the sum of Mandy's age and Sam's age was 79 years. What is the sum of their ages in years now?
15	This year at state track Kai finished 4th place in the mile race. He was also 4th place from last. If there were no ties, how many runners were in the race?
16	Give the letters of all the following statements that are true. If no statement is true, answer "none".

	(A) An angle of 45 degrees is acute. (B) No angles of a triangle can be more than 90 degrees. (C) A triangle can have three acute angles.
17	A square number is the product of a counting number times itself. What is the difference between the smallest 3-digit square number and the largest 2-digit square number?
18	From a list of the first ten counting numbers, Lynn selects 3 different numbers and adds them. If the sum she gets is the largest even sum possible, what is it?
19	Cherie left Seattle at 5:00 a.m. and drove to Spokane at 30 miles per hour. Tom left Seattle at 7:00 a.m. and drove to Spokane at 50 miles per hour. How many miles will Tom need to travel to catch up with Cherie?
20	When the mathletes were called for breakfast, only 42% showed up. If 714 mathletes showed up for breakfast, how many mathletes were called for breakfast?
21	A large group of mathletes stood equally spaced in a circle. They counted off and Biff said the number seven. He noticed Eho, number nineteen, was directly across from him. How many mathletes are in the circle?
22	A telephone call has a charge of 30 cents for the first five minutes and 4 cents for each minute after five minutes. Colin spent 62 cents on this phone call. How many minutes long was the phone call?
23	Find the largest possible odd remainder when a counting number is divided by 23.
24	If it takes one-fourth ounce of peanut butter to cover one cracker, how many crackers could I cover with half a pound of peanut butter?
25	A line is drawn down the middle of a square, from the midpoint of one side to the midpoint of the opposite side, creating two equal rectangles. If the perimeter of the original square was 48 centimeters, what is the number of centimeters in the perimeter of one of these two equal rectangles?
26	A dog has three different toys, but plays with its favorite toy exactly twice as often as either of the other two. If the dog is currently playing with a toy, what is the likelihood that it is playing with its favorite toy? Give your answer as a fraction.
27	A bathtub drain can empty a full bathtub in 20 minutes. With the drain plugged, the faucet can fill the bathtub in 15 minutes. Annie decided to take a bath and turns on the water but forgets to plug the drain. How many minutes will it take to fill the bathtub?
28	I multiply my number by six, subtract seven, and then divide by five. If I get my number back again, what is my number?
29	I left my calculator out in the rain, and now it gives me weird answers to division problems. When I enter "175 ÷ 4", it shows the answer 433. When I enter "88 ÷ 3", it shows the answer 291. When I enter "315 ÷ 2", it shows the answer 1571. When I try to divide a certain number n by 5, it shows the answer 933. What is n?
30	Lori has equal numbers of half-dollars, quarters, dimes, and nickels. She then finds a quarter and three pennies on the sidewalk. Now when she counts her money, she has exactly 2008¢. Find the total number of coins Lori has.

Challenge Questions

31	Find the length of the third side of a right triangle with a leg of length 24 units and a hypotenuse of length 26 units.
32	Three numbers are in the ratio 6 to 3 to 5. If one of these three numbers is 210, what is the difference between the largest possible sum and the smallest possible sum of the three numbers?
33	After four boys moved away, exactly half of the students on the math team were boys. Before they moved, the proportion of boys was 21 boys out of every 40 math team members. How many girls are on the math team?
34	In square meters, what is the largest area you can enclose with 20 meters of fencing?
35	A palindrome does not change when its digits are reversed. How many integers between 95 and 300 are palindromes?
36	A snail tries to get out of a well. Each day it climbs up the side of the well 4 feet and each night it slides down the well 2 feet and 6 inches. If the snail starts 40 feet down inside in the morning, how many days will the snail take to get out of the well?
37	ABCD is a rectangle with area 36 units^2. Tony makes the following 5 statements about this rectangle: (1) AB = DA; (2) AB = AC; (3) CD = BC > AB; (4) AD < DC < BD; (5) DB = CA. Let x = the number of Tony's statements that cannot ever be true; y = the number of Tony's statements that might be true or might not be true; and z = the number of Tony's statements that must always be true. Give the ratio x : y : z.
38	The ratio of the side lengths of two similar triangles is 2:3. What is the ratio of their areas?
39	Bag A has 4 blue and 5 red balls. Bag B has 5 blue and 4 red balls. I randomly choose a ball from bag A and put it in B, mixing it up. I then randomly choose a ball from bag B. What is the probability that the ball chosen from bag B is red?
40	Colin, Kai, and Sampson are playing a dice game. Colin goes first, Kai second, and Sampson third. The first person to roll a three wins and the game is over. The dice are continuously passed in the above order until someone wins. What is the probability that Sampson wins?

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Team Multiple Choice Contest

When the Jay family went on safari in East Africa, they kept track of the numbers of big animals they saw per day. Below is their record for one day, in addition to some facts about these animals. All questions about the numbers of animals seen refer to the day for which the record is shown, unless you are told otherwise. Lions and cheetahs are predators, and have paws. Gazelles and zebras are prey, and have hooves.
Notes: The abbreviation "mph" stands for miles per hour. One ton is 2000 pounds.

Animal	Top speed	Average adult weight	Number of animals seen
Cheetah	70 mph	125 pounds	10
Lion	50 mph	500 pounds	15
Gazelle	35 mph	25 pounds	40
Zebra	40 mph	600 pounds	30

1	All the cheetahs seen were young adult males (brothers) living together in family groups. If there are always 3 to 5 males per family group, what is the largest number of cheetah family groups the Jay family could have seen? A) 10 B) 5 C) 4 D) 3 E) 2
2	The African elephant is the largest land animal, and may weigh up to a maximum of 7 tons. The pygmy shrew, at 0.16 ounce, is the smallest mammal. How many pygmy shrews would it take to equal the maximum weight of an African elephant? A) $(8.75)^4$ B) 4.375×10^4 C) 8.75×10^4 D) 1.4×10^6 E) 6.25×10^4
3	How many more hooves than paws did the Jay family see? A) 15 B) 45 C) 90 D) 35 E) answer not given
4	Assume each animal seen is of average adult weight. What is the total weight in pounds of all the animals seen by the Jay family? A) 6,150 B) 1,250 C) 2,775 D) 11,550 E) 27,750
5	A newborn lion cub weighs 40 ounces. By what factor will its weight increase if it reaches the average weight for an adult lion? A) 560 B) 12.5 C) 200 D) 15 E) 20

RESTATED:
When the Jay family went on safari in East Africa, they kept track of the numbers of big animals they saw per day. Below is their record for one day, in addition to some facts about these animals. All questions about the numbers of animals seen refer to the day for which the record is shown, unless you are told otherwise. Lions and cheetahs are predators, and have paws. Gazelles and zebras are prey, and have hooves.
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Animal	**Top speed**	**Average adult weight**	**Number of animals seen**
Cheetah	70 mph	125 pounds	10
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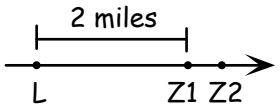
Zebra	40 mph	600 pounds	30

6	A measure of running resistance, R, is defined as $R = \frac{\text{body weight (pounds)}}{\text{top speed (mph)}}$. What is the ratio of the R-value of a zebra of average weight to the R-value of a human sprinter weighing 180 pounds and having a top speed of 20 mph? A) $\frac{10}{3}$ B) $\frac{5}{3}$ C) $\frac{3}{5}$ D) $\frac{2}{1}$ E) $\frac{3}{10}$
7	Park rangers need to move some of the animals to another part of the park due to over-crowding. They have a truck that will carry as much weight as two elephants averaging 5 tons each. If the rangers put the largest possible number of zebras of average weight in the truck, then fill up the truck with gazelles of average weight, how many animals will be in the truck? A) 41 B) 32 C) 16 D) 33 E) 49
8	A lion (L) and two zebras (Z1 and Z2) and are standing in a line as shown in the figure. The two zebras are half a mile apart, and the lion is two miles from Z1. The lion runs at its top speed, but the zebras are not fully grown and run only at three-fourths of their top speed. If all three animals begin running at the same time, all in the direction of the arrow, how many miles will Z2 have traveled when the lion catches Z1?  A) 2.5 B) 2 C) 3 D) 0.5 E) answer not given
9	A cheetah hunts and eats its prey alone. Lions share their prey with other members of their pride (living group). A cheetah kills one gazelle and a lion kills one zebra. How many members of a lion's pride (including the one who caught the zebra) could share the kill so that the ratio of prey weight to predator weight would be the same for the lions as for the cheetah? Assume all animals are of average weight. A) 2 B) 4 C) 6 D) 8 E) answer not given

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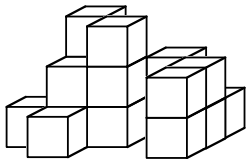
Team Contest

1	In the stack of identical cubes at right, each cube that is not resting on the table must be resting on another cube. What is the <u>smallest</u> number of cubes there could be in the stack? 
2	An experimental robotic vehicle moves at constant speed in half-hour time blocks. At the end of any half-hour block it may change its speed (which then remains the same for the next half-hour). In one test, the vehicle moved 220 kilometers in 4 hours. If its fastest speed is 60 kilometers per hour, what is the least possible distance in kilometers the vehicle could have moved during any half-hour block of this test trip?
3	My favorite number is a 2-digit counting number. One of its digits is in 12,450 and one of its digits is in 2,793. The sum of its digits is odd, and the difference between its digits is 3. Find the sum of all possible numbers that could be my favorite number.
4	At the U-Pick cherry orchard, Cheryl picked 123 cherries and Charlene picked 58 cherries. They ate some cherries on the way home. When they got home, they had 74 cherries left. How many cherries did they eat on the way home?
5	Put the following five values in order of size, smallest to largest. Your answer should consist of five letters in the correct order. A = 1.405 B = $\frac{51}{40}$ C = 1.450 D = $\frac{40}{51}$ E = 1.054
6	In a non-Leap Year, what is the date of the midpoint or middle day of the year? Give the <u>name</u> (not the number) of the month and the number of the day (eg, September 8, not 9/8).
7	In a single throw of an octahedral die, what is the probability of getting a number greater than 4 or less than 2? (An octahedral die has 8 faces numbered 1, 2, 3, and so on.) Give your answer as a fraction.
8	Of the following 4 equations, give the letters of all that are correct. If none are correct, write "none". A) 3 x 3 x 3 = 9 B) 73 + 43 = 116 x 3 = 348 C) $15+2^2=84-(5 \times 13)$ D) (6%) x 60 = 10
9	Melissa has only pennies, nickels, and dimes (at least one of each coin). At least 40 coins are either pennies or dimes. The number of nickels is at least twice the number of pennies and at least half the number of dimes. What is the smallest amount of money Melissa could have (in dollars)?
10	A cartoonist draws a comic strip with 4 panels for a newspaper that is published Monday through Saturday, but not Sunday. What is the least number of panels the cartoonist would need to draw for a year's worth of newspapers?

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Relay Contest

RELAYS - 5 minutes per relay

	Relay #1	Answer
Person 1	The numerator and the denominator of the fraction $\frac{11}{32}$ are each increased by 4. What is the resulting fraction in reduced (simplified) form?	$\frac{5}{12}$
Person 2	Take the product of the numerator and the denominator of TNYWG, then find the sum of that number and the number of diagonals you can draw in a pentagon.	65
Person 3	All the edge lengths of a box (right rectangular prism) are different integers. If the box has volume TNYWG cubic centimeters, what is its surface area, in square centimeters?	166 [sq cm]
Person 4	What is the exponent of the smallest integral power of 3 greater than TNYWG?	5
	Relay #2	Answer
Person 1	A genie has 4096 cosmic powers. If he loses half his powers every 2500 years from now, how many cosmic powers would he have left after 20,000 years?	16 [powers]
Person 2	The sultan enjoys a snack of Desert-Crisp Cakes. Each cake is a cylinder with a radius of 2.5 cm and height $\frac{TNYWG}{\pi}$ cm. What is the volume in cubic centimeters of one Desert-Crisp cake? If your answer is not an integer, give it as a decimal.	100 [cm^3]
Person 3	Aladdin is running away from the guards and is currently ahead of them by 25 feet. Aladdin can run at a rate of 5 feet per second, while the guards run after him at 30 inches per second. If Aladdin needs to be TNYWG feet away before he can hide, then how many seconds more must he run before he can hide?	30 [sec]
Person 4	Aladdin stops to buy some dates from a fruit-vendor. He buys TNYWG dates at a cost of $\frac{TNYWG}{5}$ halalas each. He has one 1-riyal coin, 3 coins worth 25 halalas each, 4 coins worth 10 halalas each, and 5 coins worth 5 halalas each. In how many ways can Aladdin pay the exact amount he owes for the dates if there are 100 halalas in one riyal?	6 [ways]

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Mental Math Contest

Final Score:

KEY

MENTAL MATH - 30 seconds per question

PERSON 1 NAME:		**1 or 0**
1.1	The area of a square is sixty-four square centimeters. What is the perimeter of the square in centimeters?	32 [cm]
1.2	What is the product of the first three odd prime numbers?	105
1.3	Find the twelfth term in the following sequence: one, three, five, seven, and so on.	23
1.4	A pinecone is two-hundred feet above the ground. If it falls to the ground in sixteen seconds, what was its average falling speed in feet per second? Express your answer as a decimal.	12.5 [ft/sec]
PERSON 2 NAME:		
2.1	What is the product of twelve and twenty-two?	264
2.2	Two faces of a cube are painted blue and the other faces are painted orange. If the volume of the cube is 27 cubic inches, what is the number of square inches painted orange?	36 [sq inches]
2.3	How much greater, in degrees, is the sum of the interior angles of a pentagon than of a quadrilateral?	180 [degrees]
2.4	How many ways are there to arrange the letters in the word deer, spelled D-E-E-R?	12 [ways]
PERSON 3 NAME:		
3.1	Find the sum of a series of six consecutive even integers if the smallest number in the set is negative 2.	18
3.2	How many diagonals can be drawn in a triangle?	0 [diagonals]
3.3	There are seven people in a chess tournament. If they all play each other once, how many games are played, given that chess is a game for two players?	21 [games]
3.4	What is the cube root of one hundred twenty-five?	5
PERSON 4 NAME:		
4.1	What is eight plus seven plus six plus five plus four plus three plus two plus one?	36
4.2	Simplify the fraction thirty-nine over twenty-six. Express your answer as a common fraction.	3/2
4.3	What is the positive square root of two hundred twenty- five?	15
4.4	Find the volume in cubic inches of a square pyramid with base length six inches and height three inches.	36 [cubic inches]

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6th Grade - Division 1 & 2

COLLEGE KNOWLEDGE BOWL ROUND #1

#	Problem	Answer
1	Six people are walking their dogs in the park. One person is walking one dog, two people are walking two dogs each, and three people are walking three dogs each. How many legs do the people and dogs have altogether?	68 [legs]
2	Tax in Washington State is eight percent. If my sweater costs fifty dollars, what is the total, in dollars, that I will have to pay for my sweater, including tax?	54 [dollars]
3	Find the area in square units of a triangle with coordinates zero comma three, four comma zero, and four comma three.	6 [square units]
4	A cubic container has side lengths of four inches. If 16 cubic inches of paint are poured into the container, what percent of the container is filled?	25 [percent]
5	Name all of the following 3 numbers that are divisible by nine. two thousand five hundred forty-four thirty-three thousand three hundred thirty-three seventeen thousand three hundred thirty-four	17,334
6	Find the sum of the smallest prime number, the second smallest positive cubic number, and the third smallest square number.	19
7	Trevor is throwing fifty-pound rocks into the river. It takes him five minutes to throw each rock. How long will it take Trevor to throw a total of one ton of rocks? Give your answer in hours and minutes.	3 hours 20 minutes
	Extra Problem – Only if Needed	
8	A pump can fill a swimming pool in eight hours. The pool can drain in ten hours. If the pump is filling the pool while the drain is open, how many hours will it take the pool to fill?	40 [hours]

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6th Grade - Division 1 & 2

COLLEGE KNOWLEDGE BOWL ROUND #2

#	Problem	Answer
1	There are two tornados 1000 kilometers away from each other. One tornado travels at 100 kilometers per hour. The other travels at 50 kilometers per hour. At these rates, in how many MINUTES will the tornados hit each other?	400 [minutes]
2	At four o'clock PM, how many degrees are in the smaller angle formed between the minute hand and the hour hand of a clock?	120 [degrees]
3	An apple pie has an area of pi. A cherry pie has an area of four pi. Both pies are circular. As a fraction, what is the ratio of the radius of the apple pie to the radius of the cherry pie?	$\frac{1}{2}$
4	Find the sum of the digits of the product of 8 and two hundred fifty-one.	10
5	Zany Zelda has three shirts, four skirts, and three different pairs of shoes. How many different outfits can she make if an outfit consists of a shirt, a skirt, and one left shoe and one right shoe that do NOT match?	72 [outfits]
6	How many prime numbers less than 50 have an even tens digit?	5 [primes]
7	A cube with edge length three units is comprised of smaller, one-unit cubes. Two adjacent faces of the large cube are painted blue. How many unit cubes have some blue paint on them?	15 [cubes]
	Extra Problem – Only if Needed	
8	What is the probability of drawing a diamond or an ace in a single random draw from a standard deck of cards?	4/13

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6th Grade - Division 1 & 2

COLLEGE KNOWLEDGE BOWL ROUND #3

#	Problem	Answer
1	My favorite book is the 8th from the left end of the shelf. If I start at the right end of the shelf, I have to skip 3 books to get to my favorite book. How many books are on the shelf?	11 [books]
2	If the odds in favor of an event are 1 to 17, what is probability that the event will NOT occur?	$\frac{17}{18}$
3	A butterfly can pollinate six flowers per hour, and a bee can pollinate fifteen flowers per hour. A total of fifteen bees and butterflies combined pollinated one hundred eight flowers in an hour. How many of the insects were bees?	2 [bees]
4	Evaluate six factorial divided by three factorial.	120
5	Rover barks every thirteen minutes. Fluffy barks every seven minutes. If they both bark at one PM, what is the next time they will bark together?	2:31 PM
6	What is twenty-six percent of one-thirteenth of one hundred?	2
7	Two circles, just touching at a single point, are inscribed in a rectangle. The circles each have a radius of 3 centimeters. What is the area of the rectangle in square centimeters?	72 [square centimeters]
	Extra Problem – Only if Needed	
8	What is the smallest of four consecutive odd integers if their average is 14?	11

"Math is Cool" Masters – 2007-08

6th Grade – May 17, 2008

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	88 [degrees]		
2	36 [units]		
3	T		
4	1680 [cubic feet]		
5	6 [times]		
6	5		
7	5		
8	90 [steps]		
9	12 [cows]		
10	350 [miles]		
11	False		
12	6		
13	14 [socks]		
14	129 [years]		
15	7 [runners]		
16	A, C		
17	19		
18	26		
19	150 [miles]		
20	1700 [mathletes]		

	Answer	1 or 0	1 or 0
21	24 [mathletes]		
22	13 [minutes]		
23	21		
24	32 [crackers]		
25	36 [cm]		
26	1/2		
27	60 [minutes]		
28	7		
29	[n =] 468		
30	92 [coins]		
31	10 [units]		
32	490		
33	38 [girls]		
34	$100/\pi$ [sq meters]		
35	21 [palindromes]		
36	25 [days]		
37	2: 2: 1		
38	4:9 or 4/9		
39	41/90		
40	25/91		

"Math is Cool" Masters – 2007-08

6th Grade – May 17, 2008

School Name_____Team #_____

Proctor Name_____Room #_____Division: _____

Final Score:
KEY

First Score

(out of 18)

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	D		
2	D		
3	E [180]		
4	E		
5	C		
6	B		
7	A		
8	C		
9	C		

"Math is Cool" Masters – 2007-08

6th Grade – May 17, 2008

School Name_____Team #_____

Proctor Name_____Room #_____Div: _____

Final Score:
KEY

First Score

(out of 20)

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	17 [cubes]		
2	10 [km]		
3	228		
4	107 [cherries]		
5	DEBAC [in order]		
6	July 2		
7	5/8		
8	C		
9	[$] 4.08		
10	1248 [panels]		

"Math is Cool" Masters -- 2007-08

KEY

6th Grade – May 17, 2008

School:_____Team #_____

Proctor: _____ Room #_____Div _____

RELAY # 1

Answer for person # 1	Answer for person # 2	Answer for person # 3	Answer for person # 4
5/12	**65**	**166 [sq cm]**	**5**
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
16 [powers]	**100 [cm^3]**	**30 [sec]**	**6 [ways]**
1 or 0	1 or 0	1 or 0	2 or 0