

"Math is Cool" Championships - 2005-06

Sponsored by:
6th Grade - March 3, 2006
Individual Contest

GENERAL INSTRUCTIONS

*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. On all tests, except multiple choice, express all rational, non-integer answers as reduced common fractions unless stated otherwise. For 5th and 6th 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 **B** 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. Express all rational, non-integer answers as common fractions unless stated otherwise. For 5th & 6th grade, make sure all fractions and ratios are reduced. Units are not needed except on questions that deal with time and, in that case, a.m. or p.m. is needed. If you choose to use units, you must use them correctly. Record your answers on the score sheet. No talking during the test. You will be given a 5 minute warning.

Record all answers on the colored cover sheet.

1	Find the product of 23 and 15.
2	Find the sum of 857 and 767.
3	Find the difference between 91,004 and 74,565.
4	Mandy drove 80 miles in 2 hours. What was Mandy's average speed, in miles per hour?
5	What is the largest two-digit multiple of 13?
6	Round 0.6789012345 to the nearest hundredth. [Write answer as a decimal.]
7	In his prime, Regis Philbin could tape 2 shows of "Who Wants to be a Millionaire?" in 3 hours. How many hours would it take him to tape 12 shows?

8	Find the missing number: $1 + 3 + 5 + 7 + 9 = 2 + 4 + 8 + \underline{\quad}$
9	Evaluate: $3.142 + 2.718 + 1.138$ Express your answer as a decimal.
10	Evaluate $5 + 13 \times 4 - 2^2$
11	What is the mode of the following data set? {7, 10, 18, 14, 36, 14, 27, 27, 9, 19, 14, 12}
12	What is 15% of 90? Express your answer as a decimal.
13	How many two-digit numbers have 7 as a digit?
14	Jillian is performing in 3 plays this summer. She spends $\frac{1}{4}$ of each day at one play, $\frac{1}{3}$ of the day at the second, and $\frac{1}{5}$ of the day at the last. What fraction of each day does Jillian have for other activities?
15	Find the 50 th number in the sequence: 2, 5, 8, 11, 14, ...
16	Sam is going to a national swimming competition, which lasts for 12 hours starting at 7 AM. Sam will burn 6,000 calories at a constant rate during the competition. What time is it when Sam has used $\frac{1}{3}$ of the calories he will burn while competing?
17	How many times does the digit 2 appear in prime numbers less than 100?
18	What is the largest prime factor of 221?
19	When the quantities $A = 3$ cups, $B = 2$ pints, $C = \frac{1}{2}$ gallon, $D = \frac{1}{4}$ quart, and $E = 1$ fluid ounce are listed in order of increasing size, give the letter of the quantity that will be in the middle.
20	Each side of a regular pentagon of side length 2 units is replaced by an outward-pointing equilateral triangle with base length 2 units, to form a star-shaped figure. What is the perimeter of the star shape?
21	Brian has 23 coins, all dimes and pennies, which add up to \$1.49. How many dimes does he have?
22	A new TI-84 Titanium Calculator has a price tag of \$147.00 before tax. Will ended up paying \$158.76 for it. What was the tax rate expressed as a percent?
23	The probability that Kenny gets a red light at an intersection in his city is always $\frac{1}{5}$. After he travels through 7 intersections with green lights, what is the probability that his last 2 intersections will both be green?
24	If the area of a triangle is 36 square cm and its base is 6 cm, what is the triangle's height, in cm?
25	The length of a certain rectangle is twenty times its width. If the area of the rectangle is 180 square inches, how many inches are in its perimeter?

26	Liz and Gary need to paint their deck. It would take Gary 6 hours working alone to paint the deck, but it would take Liz only 4 hours working alone. At these same rates, how long would it take the two of them working together to paint the deck, in hours? [Express answer as a decimal.]
27	Alyssa, Bill, Cindy, Debbie, and Evan all got to the Math Team party at different times. Alyssa arrived before Bill but after Evan. Cindy arrived later than Debbie but earlier than Alyssa. Debbie arrived later than Evan. Give the 5 initials A, B, C, D, and E in order of arrival, first to last.
28	In the game Clueless, players try to solve a murder mystery by naming a murderer, a victim, a location, and a weapon. The murderer and victim are chosen from the game's characters: Mrs. Smith, Miss Thompson, General Fish, and Professor Stone. Locations possible are the ballroom, broom closet, Jacuzzi, crawl space, or fallout shelter. Possible weapons include butter knife, pipe-cleaner, candle wax, revolving door or red rope. How many different mystery solutions are possible in Clueless?
29	24 Twinks is the same as 18 Zinks. 15 Zinks is the same as 3 Finks. 6 Finks is the same as 8 Blinks. How many Twinks are in a Blink?

Challenge Questions

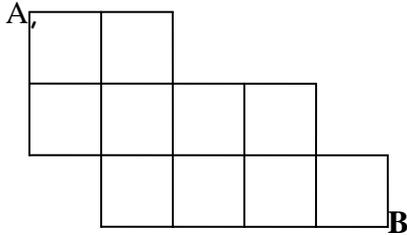
30	Biff and Eho are running a round a track in opposite directions. Biff runs around the track in 56 seconds. They meet every 24 seconds. How many seconds does it take Eho to run around the track?
31	Billy Bob is leaving his home town of Dunkville. He takes a bus heading 7 miles due north to Plunkville. Then the bus turns and travels 24 miles due east to Skunkville. How many miles are in the shortest distance between Dunkville and Skunkville?
32	A crew of 4 bakers takes 5 hours to bake 1000 cookies. At this rate, how long, in hours, would it take a crew of 9 bakers to bake 3000 cookies? [Express answer as a mixed number.]
33	What is the sum of the next three terms in the following sequence? 243, 1, 81, 2, 27, 3, 9, 4, ...
34	In triangle XYZ, the measures of angle X and angle Y are equal. If the measure of angle Z is three times as large as the measure of angle X, what is the measure of angle Z, in degrees?
35	What is the first prime number greater than 200?
36	Out of a standard deck of 52 cards, James draws two 7's. What is the probability he will draw the last two sevens in his next two draws?
37	The dimensions of a rectangle are both multiplied by three. What is the ratio of the new area to the original area? [Express answer in the form of a : b.]
38	A semicircle has a total perimeter of $4\pi + 8$ units. Find the number of square units in the area of this semicircle.

39

Adventure Jim is surveying a rectangular hole in the jungle floor, thinking, "That looks suspiciously like a trap!" While walking around the entire perimeter of the hole, he maintains a precise one foot distance from its edge. If the hole's dimensions are 2 feet by 6 feet, how many feet does Adventure Jim travel, while surveying the hole?

40

A beetle is standing at point A. It only walks right and down and it always stays on the lines. How many different paths can it take to point B?



"Math is Cool" Championships - 2005-06

Sponsored by:

6th Grade - March 3, 2006

Team Multiple Choice Contest

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. NOTA means "None of the Above answers are correct."

Company	Base Price (paid once per customer)	Price per mile	Price per day
Hertz	\$30	8 cents	\$3
Avis	\$20	10 cents	\$6
Alamo	\$35	11 cents	\$2
Enterprise	\$25	X cents	\$7
Budget	\$15	10 cents	\$12

1	How much would it cost to rent a car from Hertz for three days and drive it 625 miles? A)\$59.00 B)\$70.00 C)\$85.08 D)\$89.00 E)NOTA
2	Will rented a car from Avis for 4 days and paid a total of \$65.50, how many miles did he drive. A) 150 miles B) 200 miles C) 210 miles D) 250 miles E)NOTA
3	Andy picked up the above brochure at the airport and the cost per mile for Enterprise was smudged and unreadable. He overheard some people say that they had rented a car from Enterprise for three days and drove it 200 miles and it cost them \$62.00. What is the price per mile to rent from Enterprise? A) 5 cents B) 8 cents C) 9 cents D) 12 cents E)NOTA
4	Family is visiting Daniel for the entire month of July. He has decided to rent a car in case of emergencies. If the car does not get driven the entire month, which company would be the cheapest to rent from? A)Hertz B)Avis C)Alamo D)Enterprise E)Budget

5	<p>Biff missed his 1:00 A.M. flight and has decided to drive to Sacramento 1000 miles away. He is going to make the drive in one day. Which company would be the cheapest to rent from?</p> <p>A)Hertz B)Avis C)Alamo D)Enterprise E)Budget</p>
6	<p>Enterprise has determined that all of its car's odometers, distance measurers, are broken, measuring only 90% of miles driven. If Daniel drove 2,100 miles in a car from Enterprise, how much did the company lose?</p> <p>A)\$16.80 B)\$10.20 C)\$11.30 D)\$11.70 E)NOTA</p>
7	<p>Hertz realized that for everyday of travel, one dollar was needed eventually for maintenance and repairs. If Daniel drove 150 miles a day for 15 days in a Hertz car, what percent of Daniel's bill is used for maintenance? Round to the nearest whole percent.</p> <p>A)3% B)4% C)5% D)6% E)NOTA</p>
8	<p>Alamo cars all cost \$10,004 each. How long must each car be rented continuously if customers always rent for only one week, and drive 300 miles per week to produce enough revenue equal to the cost of one car?</p> <p>A)503 days B)541 days C)580 days D)612 days E)NOTA</p>
9	<p>Only one company could be both cheapest and most expensive depending on the situation. Which one?</p> <p>A)Hertz B)Avis C)Alamo D)Enterprise E)Budget</p>

"Math is Cool" Championships - 2005-06

Sponsored by:

6th Grade - March 3, 2006

Team Contest

TEAM TEST - 15 minutes (note change in point value!)

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. Express all rational, non-integer answers as fractions unless stated otherwise. For 5th & 6th grade, make sure all fractions and ratios are reduced. Units are not needed except on questions that deal with time and, in that case, a.m. or p.m. is needed. If you choose to use units, you must use them correctly.

1	A booklet is made by folding and stapling six double-sided sheets of paper. Then the pages of the booklet are numbered in order from 1 through 24. Page 16 is on the same sheet of paper as what other 3 page numbers?								
2	A certain cube has a volume of 64 cubic inches. What is the sum of the lengths of the edges of this cube, in inches?								
3	Three clowns can hold 21 balloons. How many balloons can 5 clowns hold?								
4	The odds are 3 to 5 in favor of drawing a blue marble in one random drawing from an urn containing only red and blue marbles. There are more than 100 marbles in the urn. What is the minimum number of red marbles that there could be in the urn?								
5	The fraction halfway between $\frac{3}{8}$ and $\frac{7}{9}$ on the number line is what?								
6	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>a</td><td>b</td></tr><tr><td>c</td><td>d</td></tr></table> = $ad - bc$ Evaluate: <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>8</td><td>3</td></tr><tr><td>9</td><td>2</td></tr></table>	a	b	c	d	8	3	9	2
a	b								
c	d								
8	3								
9	2								
7	A math contest has 10 multiple-choice questions. A right answer scores 4 points, a question left blank scores 1 point, and a wrong answer scores -1 points. Elena answered all the questions and got a score of 30. How many questions did she miss?								
8	The letters A and B stand for positive integers. Given that $A + B = 100$, A is evenly divisible by 7, and B is evenly divisible by 3, find the sum of all possible values of A.								
9	Andy, Bob, and Colin are waiting in line at the Googolplex Theater to see the new Star Wars movie. Andy is the 14th person in line, Bob is the 78th, and Colin is further back. There are half as many people standing between Andy and Bob as between Bob and Colin. What number person in line is Colin?								
10	The Pascal High School Marching Band has 86 members. There are 18 more guys in the band than girls. How many of the band members are girls?								

"Math is Cool" Championships - 2005-06

Sponsored by:
6th Grade - March 3, 2006
Relay Contest

RELAYS - 5 minutes per relay

*There is no talking during this event and you must always be facing forward. Person #1 will be given an answer sheet(s) and will need to fill out the top. The proctor will hand out a strip of paper to each person. These need to be face down on your desk until it is time for the relay to start. Once the relay begins, everyone may turn over their strip of paper and begin working. You may write on the strip of paper to come up with your answer. However, when person #1 figures out his/her problem, he/she will record **just his/her final answer** on the answer sheet and pass only the answer sheet back to the person behind. This continues until person #4 puts an answer on the answer sheet and gives it to the proctor. A correct answer from person #1, #2 and #3 is worth 1 point each. A correct answer from person #4 is worth 2 points making each relay worth 5 points. You will see the expression **TNYWG** [Proctor: write this on the board] which means: "the number you will get". This is where you put your teammate's answer that they pass back to you, and then you should be able to solve your question. Once the relay begins, turn over your strip of paper and **make sure you have the right person number**. Remember, no talking and remain facing forward to avoid being disqualified!*

	Practice Relay	Answer
Person 1	Multiply 4 and 3.	12
Person 2	What is the area of a square with a perimeter of TNYWG?	9
Person 3	Evaluate: TNYWG/3	3
Person 4	Evaluate: 4 + TNYWG/3	5
	Relay #1	Answer
Person 1	Evaluate: 5 + 6 + 7 + 8 + 9 + 10	45
Person 2	Evaluate: $\left(\frac{5}{6} \times \frac{1}{2} \div \frac{5}{12}\right) \times (TNYWG \div 5)$	9
Person 3	A = Sum of the interior angles in a triangle B = 30% of 60 C = The number of prime numbers between 30 and 40 Evaluate: $\frac{A}{B \times C} + TNYWG$	14
Person 4	Find the sum of TNYWG and how many distinguishable ways can you arrange the letters in MELLOW if the first letter must be W?	74

	Relay #2	Answer
Person 1	What is the product of 15 and 4?	60
Person 2	Find the difference between the area of a square of side length 11 and the perimeter of a square of side length (TNYWG - 50).	81
Person 3	$A = \sqrt{TNYWG}$ B = the number of quarts in a gallon C = the smallest prime number D = the least common multiple of 4 and 3 Evaluate: $\frac{D}{B} \times C + A$	15
Person 4	The Hochstatter children practice their instruments sporadically each week. Every Monday and Wednesday, Caleb practices his tuba (TNYWG) minutes each day. David practices his trumpet five days a week for (TNYWG × 2) minutes each day. Amanda only practices her oboe on Thursdays for (TNYWG × 4) minutes and finally, Grace practices piano six days a week for (TNYWG × 2) minutes each day. How many total hours do the Hochstatter children practice their instruments in one week?	7 [hours]

"Math is Cool" Championships - 2005-06

Sponsored by:
6th Grade - March 3, 2006

Final Score:

KEY

School Name _____ Team # _____

Proctor Name _____ Room # _____ Division: _____

Mental Math Contest

When it is time to begin, I will read the first question twice. You may not do any writing or talking while arriving at a solution. Once you have a solution, record it on the sheet in front of you. You may not change or cross out answers once you have written an answer down. If there are eraser marks, write-overs, or crossed out answers, they will be marked wrong. Once all students have laid their pencils on the desk, another question will be asked. If a student doesn't lay his/her pencil down, the maximum wait time is 30 seconds from the second reading of the question before another question is asked. You may continue to work on a problem while the next question is being read. The value of each question is a one or zero. Each student may answer only four questions, and then another member of your team will come up, until each team member has had a turn. If your team has fewer than 4 members, missing team members will receive a zero.

PERSON 1 NAME:		1 or 0
1.1	What is the sum of 23 and 37?	60
1.2	What is four cubed?	64
1.3	Caleb has 4 quarters, 3 dimes, 3 nickels, and 4 pennies in his pocket. How many coins does he have in his pocket?	14 [coins]
1.4	Solve for x: $3x + 2 = 14$.	4
PERSON 2 NAME:		
2.1	What is the difference between 81 and 49?	32
2.2	What is the product of the square root of 64 and the square root of 9?	24
2.3	What is 8 gallons plus 3 quarts plus 2 pints in pints?	72 [pts]
2.4	Solve for x: Square root of x equals 5.	25
PERSON 3 NAME:		
3.1	What is the product of 7 and 12?	84
3.2	Evaluate: Twice the sum of 3 squared and 2.	22
3.3	What is the sum of the first 8 odd integers?	64
3.4	Circle "A" has circumference of 6π . Circle "B" has a circumference twice that of circle "A". What is the area of Circle "B"?	36π [un ²]
PERSON 4 NAME:		
4.1	What is the sum of the factors of 10?	18
4.2	What is the quotient of 75 and 5?	15
4.3	What is 80% of 60?	48
4.4	Angle "A" measures 25 degrees. What is the sum of the supplement and complement of Angle "A" in degrees?	220 [°]

"Math is Cool" Championships - 2005-06

Sponsored by:
6th Grade - March 3, 2006

Division 1

COLLEGE KNOWLEDGE BOWL ROUND #1

#	Problem	Answer
1	Three times what number is 72?	24
2	Patricia is 4 feet 6 inches tall at the start of summer vacation. If she grows 3 inches this summer, what will Patricia's height be at the end of the summer, in inches?	57 [inches]
3	How many counting numbers are between 87 and 125? Eighty-seven and 125 are not included.	37
4	What is the sum of 18 and the product of 3 and negative 4?	6
5	A clock set correctly at noon loses 45 seconds each hour. At noon the next day, what time will this clock show?	11:42 [AM optional]
6	A cone of volume 2π cubic inches has a radius of 1 inch. Find the number of inches in the height of the cone.	6 [inches]
7	When counting backwards from 140 by twos, what is the first multiple of 18 you will say?	126
	Extra Problem - Only if Needed	
8	In how many ways can a quartet of tuba players be selected from the 9 performers who are trying out?	126 [ways]

"Math is Cool" Championships - 2005-06

Sponsored by:

6th Grade - March 3, 2006

Division 1

COLLEGE KNOWLEDGE BOWL ROUND #2

#	Problem	Answer
1	Find the product of $\frac{1}{5}$ of 18 and $\frac{1}{9}$ of 30.	12
2	Gregg, Daniel, and Will bought 3 pounds of cherries. Gregg ate half a pound of them, and Daniel ate $\frac{3}{8}$ of a pound. Will ate all the rest of the cherries. How many ounces of cherries did Will eat? There are 16 ounces in a pound.	34 [ounces]
3	Subtract the sum of 5 twos from the product of 5 twos.	22
4	Seven cats each had seven kits. How many kits and cats are there in all?	56 [kits and cats]
5	What is the square root of 169?	13
6	How many 2-digit numbers will divide into 72 with no remainder?	5 [numbers]
7	The first 3 terms in a sequence are 19, 15, and 11, what is the 7 th term of the sequence?	-5
	Extra Problem - Only if Needed	
8	Find the area (in square centimeters) of the region between two concentric circles, one with diameter 14 cm and the other with diameter 10 cm.	24π [sq cm]

"Math is Cool" Championships - 2005-06

Sponsored by:

6th Grade - March 3, 2006

Division 1

COLLEGE KNOWLEDGE BOWL ROUND #3

#	Problem	Answer
1	In his book bag, Victor has the 3 books of the Lord of the Rings trilogy, the 5 books of the Hitchhiker's Guide to the Galaxy series, and the first 4 Harry Potter books, all in separate volumes. He wants to read one of the Harry Potter books, but doesn't care which one. If he reaches into his backpack without looking, what's the largest number of books he could possibly need to take out to be sure of getting a book he wants to read?	9 [books]
2	What is one divided by two point two as a reduced common fraction.	5/11
3	The point (2, -3) on a coordinate grid is reflected first over the x-axis, then over the y-axis. Give the coordinates of the final position of the new point as an ordered pair (x,y).	(-2, 3)
4	Josh gets on an elevator at floor x. The elevator goes up 3 floors, down 5 floors, then up 7 floors. Josh is now at floor 13. What floor is x?	8th [floor]
5	What is the least common multiple of 20 and 170?	340
6	The largest of 6 consecutive even numbers is 22. What is the sum of the 6 numbers?	102
7	Find the sum of 18 and the product of 4 and 3.	30
	Extra Problem - Only if Needed	
8	Find the cube of negative 7.	-343

"Math is Cool" Championships - 2005-06

Sponsored by:
6th Grade - March 3, 2006

Division 2

COLLEGE KNOWLEDGE BOWL ROUND #1

#	Problem	Answer
1	A palindrome is a number that remains the same when its digits are reversed. What is the smallest positive integer you could add to 102 to make the sum a palindrome?	9
2	Each member of the Eco-Action Club contributed the same whole number of dollars to a fund to help preserve tropical rainforests. The club has between 10 and 20 members. If the total contributed was \$91, how many dollars did each member contribute?	[\$] 7
3	A cube has a volume of 216 cubic inches. This cube is made up of 27 smaller cubes. What is the edge length of each of the smaller cubes, in inches?	2 [inches]
4	What is the difference between the product of 5 and 12 and the product of 3 and 4?	48
5	A bag contains more than 100 coins. The coins can be put in 4 equal stacks, 6 equal stacks, or 7 equal stacks, with none left over each time. What's the least number of coins there could be in the bag?	168 [coins]
6	What is the degree measure of the vertex angle of an isosceles triangle with one base angle of 37 degrees?	106 [°]
7	Reverse the digits of 1776 and add this number to the number formed by reversing the digits of 2006.	12,773
	Extra Problem - Only if Needed	
8	How many ways are there for 3 people to sit in 8 desks lined up in a row?	336

"Math is Cool" Championships - 2005-06

Sponsored by:

6th Grade - March 3, 2006

Division 2

COLLEGE KNOWLEDGE BOWL ROUND #2

#	Problem	Answer
1	When 8 is expressed as a power of 2, what is the exponent?	3
2	The geometric mean of two positive integers is the positive square root of their product. What is the geometric mean of 2 and 18.	6
3	Subtract $\frac{3}{4}$ from $2\frac{1}{4}$ and give your answer as a decimal.	1.5
4	A composite number is a natural number with more than 2 factors. How many composite numbers are at least 10 but no greater than 25? This includes 10 and 25.	11 [numbers]
5	From 10 AM to 12:00 PM the same day, the hour hand of a clock travels how many degrees?	60 [deg]
6	A cube has its six faces numbered 1, 2, 3, -1, -2, and -3. When 2 of these dice are rolled, what is the probability of getting a sum of 0?	1/6
7	When 6 factorial is divided by 3 factorial, the quotient is n factorial. What is n?	5
	Extra Problem - Only if Needed	
8	Ben draws 2 cards from a well-shuffled deck, without replacement. What is the probability that he does not get a pair?	16/17

"Math is Cool" Championships - 2005-06

Sponsored by:

6th Grade - March 3, 2006

Division 2

COLLEGE KNOWLEDGE BOWL ROUND #3

#	Problem	Answer
1	A rubber ball is dropped from a height of 12 feet. It hits the ground and bounces $\frac{2}{3}$ of the way up to the point from which it was dropped. How many feet has the ball traveled by the time it hits the ground a second time?	28 [feet]
2	Square two and twenty-five hundredths and give your answer as a common fraction.	$\frac{81}{16}$
3	The greatest integer less than ten and one half is 10. What is the greatest integer less than 2π ?	6
4	Adam, Betsy, Carol, and Donny were eating lunch at the same table. Their average age was 11 years. When Elise joined them, the average age of the people at this table increased by one year. How many years old is Elise?	16 [years old]
5	What is the product of three less than ten and four?	28
6	Gregg is 24 years old, and his little sister is $\frac{2}{3}$ his age. In years, what was the sum of their ages eight years ago?	24 [years]
7	What is the minimum number of cuts needed to cut twenty meters of ribbon into 2.5-meter lengths if only one section of ribbon can be cut at a time?	7 [cuts]
	Extra Problem - Only if Needed	
8	A palindrome is a number that does not change when its digits are reversed. Find the smallest 5-digit palindrome that is a multiple of 9.	10701

"Math is Cool" Championships - 2005-06

6th Grade - March 3, 2006

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	345		
2	1,624		
3	16,439		
4	40 [mph]		
5	91		
6	.68 [or 0.68]		
7	18 [hours]		
8	11		
9	6.998		
10	53		
11	14		
12	13.5		
13	18 [numbers]		
14	13/60		
15	149		
16	11 AM		
17	3 [times]		
18	17		
19	A		
20	20 [units]		

	Answer	1 or 0	1 or 0
21	14 [dimes]		
22	8 [%]		
23	16/25		
24	12 [cm]		
25	126 [inches]		
26	2.4 [hr]		
27	EDCAB		
28	300 [solutions]		
29	5 [Twinks]		
30	42 [seconds]		
31	25 [miles]		
32	6 2/3 [hr]		
33	9		
34	108 [°]		
35	211		
36	1/1225		
37	9:1		
38	8π [sq units]		
39	16 + 2π [feet]		
40	42 [paths]		

"Math is Cool" Championships - 2005-06

6th Grade - March 3, 2006

Final Score:
KEY

First Score

(out of 18)

School Name _____ Team # _____

Proctor Name _____ Room # _____

Division: _____

Team Multiple Choice Contest - Score 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	E [215 miles]		
3	B		
4	C		
5	D		
6	A		
7	D		
8	E [854 days]		
9	C		

"Math is Cool" Championships - 2005-06

6th Grade - March 3, 2006

Final Score:

KEY

First Score

(out of 20)

School Name _____ Team # _____

Proctor Name _____ Room # _____

Div: _____

Team Contest - Score Sheet

DO NOT WRITE IN SHADED REGIONS

	Answer	2 or 0	2 or 0
1	9, 10, 15 (any order)		
2	48 [inches]		
3	35 [balloons]		
4	65 [marbles]		
5	$\frac{83}{144}$		
6	-11		
7	2[questions]		
8	245		
9	[#] 205		
10	34 [girls]		

"Math is Cool" Championships -- 2005-06

KEY

6th Grade - March 3, 2006

School: _____ Team # _____

Proctor: _____ Room # _____ Div _____

PRACTICE RELAY

Answer for person # 1	Answer for person # 2	Answer for person # 3	Answer for person # 4
12	9	3	5
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
45	9	14	74
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
60	81	15	7 [hrs]
1 or 0	1 or 0	1 or 0	2 or 0