"Math is Cool" Championships – 2008-09

Sponsored by:

5th Grade – April 17, 2009

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	If there are 12 grapes in a bunch, then how many grapes are in 3 bunches?
2	What is the area in square feet of a rectangle with sides of length 10 feet and 3 feet?
3	What is the sum of the first 3 positive even counting numbers?
4	How many hours are in 4 days?
5	Sam rolls two dice and gets a 6 on one of them. How many different possible sums can Sam get?
6	It takes the wool of three sheep to make one coat. The wool from how many sheep are needed to make 12 coats?
7	If I flip a coin and get a head, then what is the probability of getting a head on the next flip?
8	Let (a | b) = (a+b)(a+b). What is (1 | 3)?
9	At the Mad Hatter, Jones can buy a new fedora for $15 and a used fedora for $10. If he buys 3 new fedoras and 1 used one, what is the total cost of his purchase, in dollars?
10	My neighbor wants to build a square fence around her new garden. If she has 20 meters of fencing available, then what is the area in square meters of the largest possible garden that she can have?
11	Lee has a bag full of apples and oranges. If there is 1 orange for every 4 fruits in the bag, then how many apples are in the bag if there are 20 fruits in the bag?
12	Little Kim has a 10-page book, each page in her book has 30 words and each word has 5 letters. How many letters are in Little Kim's book?
13	In the town of Mooky, everyone has the same number of blue and red birds. If there are 7 people, 14 blue birds and 56 red birds in Mooky, then how many total birds does each person in Mooky have?
14	Evaluate: 3 + 5 x 2 + 4?
15	Andrew's flash drive can hold 512 kilobytes. If he fills up three-quarters of his flash drive with next year's "Math is Cool" questions, how many kilobytes would still be available?
16	Anna can run a mile in 6 minutes while Ryan can run 2 miles in the same time. How many miles farther can Ryan run in 12 minutes than Anna?
17	Matt is skipping rocks into a river. If every stone he throws, skips 6 times, then how many stones did he throw if he managed to have 36 "skips" by the end of the day?
18	What is the positive difference between the area in square units and the perimeter in units of a square with sides of length 3?
19	Write .35 as a reduced fraction.
20	Miya is saving money for shoes. If she puts aside one dollar the first day, two dollars the second day, three dollars the third day and so on, then how many days will she need to save up enough money for a pair of 45-dollar shoes?

21	How many feet are in 23 yards?
22	A bouncy ball can rebound to half the height it was dropped from. What is the height, in feet, of the 3rd rebound if the ball was initially dropped from a height of 8 feet?
23	What is the largest whole number that can divide into both 12 and 72 with no remainder?
24	What is the remainder when 104 is divided by 3?
25	Let A be the sum of the first 10 positive numbers. What is A divided by 5?
26	Evaluate: (1)(2)(3)(4)(5)(6).
27	Greg rolls two eight-sided dice. How many ways are there to get a sum of 8?
28	Evaluate: (10/13)(1/2)(13/10).
29	Mazama has a weird currency. If 1 able is equal to 3 ebles, 2 ebles to 1 ible, and 4 ibles to 1 oble, then how many ables are in 3 obles?
30	If 123 + A = 152, then what is 123 – A?

Challenge Questions	
31	There are 10 hens and "x" llamas in Uncle John's barn. If there are 36 legs in the barn, then how many llamas does Uncle John have?
32	If City A is 146 miles away from City B and the distance between Cities B and C is half the distance of City A to City B, then what is the distance, in miles, between City A and City C? A 146 miles B C
33	The ratio of boys to girls on the math team is 5 to 3. If they can get three more girls to join, the ratio of boys to girls would be ten to seven. How many kids are currently on the math team?
34	Stacey has a special positive two digit number. If you add the digits of her number and triple the sum, then you get her number again. What is her special number?
35	Sarah had left her 3-inch by 4-inch rectangular plate out for too long in the sun. For every hour that the plate stayed out there, the lengths of each side increased by 1-inch. If she left her plate out for 5 hours, what would the area in square inches of her plate be when she came back?
36	What is the surface area in square units of a box (with a top) if the sides of the box are squares with sides of length 3?
37	Joe is putting a 3-inch wide picture frame around a picture of size 2-feet by 4-feet. How many linear feet of 3 inch wide picture frame material is needed?
38	Six People can sit at one rectangular table. Another table of the same size and shape is pushed up against the first table and 10 people can sit at these two tables. A third table of the same size and shape is pushed up against the second table, and now 14 people can sit at these three tables. Adding a fourth table in the same fashion, 18 people can be seated at the four tables. How many people can sit at 10 tables?
39	With declining retail sales during this economic slowdown Eho decides to mark everything down in his store by 10%. This didn't stimulate sales so he marked everything down another 20%. What is the overall % mark down?
40	While doing a math problem today at the contest the probability of Annie, Tom and Karen getting the problem correct first is 1/7, 1/2, and 5/14 respectively. Annie breaks her pencil lead so is out for the question. What is the probability Tom gets done first?

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Team Multiple Choice Contest

Vacation rates

A family of four wants to go on vacation. Online, they check the prices for five different places, including rental car and hotel prices. The whole family stays in one hotel room, unless otherwise stated.

Location	Plane (per person)	Rental Car (per day)	Hotel (per day)
California	$375	$26.50	$109.00
Las Vegas	$420	$17.50	$215.00
Florida	$650	$19.00	$115.00
Bahamas	$730	$5.00	$150.00
British Columbia	$225	$29.00	$100.00

Gasoline/Fuel

Type	Unleaded	Super Unleaded
Miles per gallon	25 mpg	30 mpg
Cost	$4.25	$4.75

1	What is the cost of airfare to get the family to Las Vegas? A) $1000 B) $1670 C) $2250 D) $3080 E) Answer not given.
2	How many miles can a car travel on $23.75 of Super Unleaded gas? A) 100 B) 150 C) 175 D) 200 E) Answer not given.
3	How much money will the family save on airfare only, if they go to California instead of to Florida? A) $950 B) $1025 C) $1100 D)$1400 E) Answer not given.
4	How much is the least expensive 3-day trip for the family taking into consideration the cost of plane, rental car, and hotel prices? Assume the car traveled a total of 150 miles during the 3 day vacation and they used Super Unleaded gas. A) $1545.25 B) $1750 C) $1870 D) $1930.25 E) Answer not given.
5	When the family books a trip with a travel agent, the agent charges a 20% commission on the plane, rental car and hotel costs. How much commission will the travel agent charge the family for a 5-day trip to California? A) $400 B) $435.50 C) $450 D) $500 E) Answer not given.
6	How many ways can the family of four sit in a row of four on the plane? A) 24 B) 6 C) 2 D) 1 E) Answer not given.
7	If the family takes a 50 mile trip, which type of gas is more cost efficient? A) Unleaded B) Super Unleaded C) Can't be determined E) Answer not given.
8	The family decides to get two hotel rooms while taking a 4-day trip to California, how much extra does this cost? A) $125 B) $140 C) $410 D) $436 E) Answer not given.
9	What is the difference between the most and least expensive week-long trip, excluding the cost of fuel? A) $ 1500 B) $ 1800 C) $ 2000 D) $2202 E) Answer not given.

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Team Contest

1	Find the smallest counting number whose digits add up to 20.
2	My dog can eat one can of dog food in three-fourths of a minute. It takes him a half-minute longer to eat the second can than the first, and one minute longer to eat the third can than the second can. How many seconds would it take my dog to eat 3 cans of dog food?
3	Give the letters of all of the following statements that are true. If no statement is true, answer "none". A) It is impossible to subtract a larger number from a smaller number. B) The diagonal of a square divides the square into two congruent equilateral triangles. C) When you divide one positive number (the dividend) by another positive number (the divisor), the answer (the quotient) is always less than the dividend. D) The counting numbers (= natural numbers = positive integers) do not include 0. E) When you double the radius of a circle, you double its area.
4	If it was June exactly 47 months ago, what month is it now? (Give the name of the month, not a number.)
5	Veronica has 36 coins, which she has put into three stacks. Stack A is the largest, and has 3 times as many coins as stack B. Stack C is the smallest, and has only half as many coins as stack B. How many coins are in stack B?
6	The schedule for the Circus of the Sun show lists the times each performance begins. The knife-throwers perform a quarter of an hour after the clown act starts. The high-wire act is at 9:18 PM, which is 25 minutes after the trapeze artists begin. The clown act starts 37 minutes before the trapeze artists begin. At what time do the knife-throwers start to perform?
7	The dogs in a kennel have fleas and ticks. The dogs each have 4 legs, the fleas each have 6 legs, and the ticks each have 8 legs. There are at least 5 dogs, and each dog has at least 1 flea and 1 tick. There are 110 legs in the kennel. What is the ratio of fleas to ticks?
8	Claire was doing a boring worksheet of addition problems. To make them more interesting, she doubled each addend and subtracted 1 before adding them together (correctly). One problem on the worksheet was 1 + 2 + 3 + … + 7 + 8. What number did Claire have to subtract from her answer to get the correct answer to the problem on the worksheet?
9	The positive number n, when multiplied by itself, gives 237 as the product $\left(n \times n = 237\right)$. The number n is not a whole number. What is the sum of the two consecutive whole numbers that n is between?
10	A rectangle with area 12 square units has side lengths that are whole numbers. A second rectangle is drawn for which both the length and the width of the original rectangle are increased by 1 unit. What is the largest possible number of square units in the area of the second rectangle?

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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	Find the product of 8 and 9.	72
Person 2	What is the sum of the digits of TNYWG?	9
Person 3	TNYWG is what fraction of 12?	3/4
Person 4	What is TNYWG minus 0.75?	0
	Relay #1	Answer
Person 1	Two dozen muffins are put into 8 bags, with each bag getting the same number of muffins. How many muffins were put in each bag?	3 [muffins]
Person 2	What is the smallest prime number greater than the sum of TNYWG and 5?	11
Person 3	Find the difference of TNYWG and the number of eyes on 4 bunnies.	3
Person 4	When 3 coins are flipped, what is the probability that TNYWG of them will show heads? Give your answer as a fraction.	1/8
	Relay #2	Answer
Person 1	A bicycle tire makes a full revolution every 2 meters. How many revolutions will it make in 100 meters?	50 [rev]
Person 2	What is the remainder when you divide TNYWG by the number of feet in 3 yards?	5
Person 3	What is the product of TNYWG and the area of a right triangle, in square units, with both legs of length 2 units?	10 [sq un]
Person 4	The largest counting number that divides into two different numbers with no remainder is called the greatest common factor of those two numbers. Find the greatest common factor of 12, 16, and TNYWG.	2

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Final Score:
KEY

School Name_____Team #_____

Proctor Name_____Room #_____ Division: ____

Mental Math Contest

MENTAL MATH - 30 seconds per question

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 difference between fifty-four and twenty-seven?	27
1.2	If it takes Helen and Miya six minutes to write a math question, how minutes will it take them to write four sets of four questions?	96 [min]
1.3	Paul leaves his house to go running, and Paul can run a mile in eight minutes. If he runs four miles and takes a ten minute break, how long, in minutes, was he out?	42 [min]
1.4	What is the product of twelve and nine?	108
PERSON 2 NAME:		
2.1	Tom and Andrew decide to share their candy equally. Tom has sixty pieces and Andrew has twenty-four pieces, how many pieces will each person get?	42 [pieces]
2.2	How many positive factors does the number fifteen have?	4 (factors)
2.3	If it is six fifteen in the morning right now, what time will it be in two hours and twenty minutes?	8:35 AM
2.4	What is the sum of one-fourth and one-half?	3/4
PERSON 3 NAME:		
3.1	What is the third smallest two-digit odd number?	15
3.2	What is the perimeter of a regular dodecagon with a side length of three?	36 [un]
3.3	How much money is two quarters, four dimes, and 3 nickels? Express your answer in cents.	105 [cents]
3.4	Fred has four red socks and eight blue socks. Blue socks are what fraction of his socks?	2/3
PERSON 4 NAME:		
4.1	Five cows are grazing in a pasture, how many legs are there?	20 [legs]
4.2	Alison drinks a quart of water a day. How many days will it take her to drink three gallons?	12 [days]
4.3	What is the sum of the interior angles of a pentagon, in degrees?	540 [°]
4.4	If a mathlete answers seventy-five percent of her math questions correctly and she is given four questions, how many will she get correct?	3 [ques]

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Set A

COLLEGE KNOWLEDGE BOWL ROUND #1

#	Problem	Answer
1	Trevor is driving at sixty miles per hour from Seattle to Spokane, a distance of three hundred miles. How many hours will it take him to get there?	5 [hours]
2	If an equilateral triangle with side length four inches and a square with side length four inches are joined together to form a shape of a house where the triangle is the roof, what is the perimeter of the resulting shape?	20 [inches]
3	If four people go to shake hands with each other once, how many handshakes will occur?	6 [handshakes]
4	If yesterday was Thursday, what day will it be in forty-six days from today?	Tuesday
5	Tom, Sarah, Greg, and Cindy decide to go to a movie on a Friday night. How many different seating arrangements can there be?	24 [arrangements]
6	Solar-powered flashlights are on sale for buy one, get one half off. If Timmy decides to buy eight flashlights under this deal, and the original price of the flashlights is six dollars, how much will he pay in dollars?	[$] 36
7	Professional soccer is played in two forty-five minute halves while pro-football is played in four fifteen minute quarters, how many more minutes of playing time do soccer players get per game?	30 [minutes]
	Extra Problem – Only if Needed	
8	How many ways can the letters in the word "ENGLISH" be arranged?	5040 [ways]

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Set A

COLLEGE KNOWLEDGE BOWL ROUND #2

#	Problem	Answer
1	Everyday Cameron practices free throws. The first day, he makes two free throws out of twenty. The second day, he makes five out of twenty, and on the third day, he makes eight out of twenty. If this continues until he makes all twenty out of twenty free-throws, how many days will it take for him to get to this point?	7 [days]
2	Barbara has five blouses, four skirts, and ten pairs of shoes. How many different outfits can she make?	200 [outfits]
3	What is the sum of the squares of the first five positive numbers?	55
4	How many square inches are in a triangle that has legs measuring 3 feet and 4 feet?	864 [in^2]
5	It is a hot, sunny day. Hector goes to fill his swimming pool with water. If he fills the pool at a rate of thirteen gallons every hour, but a hole drains the pool at a rate of one gallon every two hours, how many hours will it take to fill the hundred gallon pool?	8 [hrs]
6	Patrick is earning money by mowing lawns. If it takes him an hour to mow one hundred square feet of lawn and he gets paid five dollars an hour. How much will he get paid for a rectangular lawn with side lengths of twenty-five feet by twenty feet?	[$] 25
7	What is the sum of the following fractions? One-half plus one-third plus one-sixth	1
	Extra Problem – Only if Needed	
8	Evaluate: seven times six times five	210

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Set A

COLLEGE KNOWLEDGE BOWL ROUND #3

#	Problem	Answer
1	What is the sum of the next two numbers that come next in this series? Five, eighteen, thirty-one, forty-four, . . .	127
2	What is the greatest common factor of 91 and 154?	7
3	Johnny goes to the candy store to buy as many jawbreakers as possible. Jawbreakers cost sixty-nine cents and Johnny has ten dollars. How much change does Johnny have left? Express your answer in cents	34 [cents]
4	Claire has taken five math tests so far this year. She has scored a 91%, 78%, 79%, 82%, and a 70%. What is her average test score as a percent so far this year?	80 [%]
5	What is eighteen percent of three hundred fifty?	63
6	My favorite number is a three-digit number. The tens digit is half of the hundreds digit and the units digit is three times the tens digit. The sum of the digits is twelve, what is my favorite number?	426
7	How many prime factors does the number 840 have?	4 [factors]
	Extra Problem – Only if Needed	
8	How many dollars are in 5 dimes, 4 quarters, and 10 nickels?	[$] 2

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Set B

COLLEGE KNOWLEDGE BOWL ROUND #1

#	Problem	Answer
1	The weatherman says that we can expect rain eighty percent of the next fifteen days. How many days of rain can we expect?	12 [days]
2	Find the least common multiple of thirty-six and fifty-four?	108
3	Bobby wants to buy baseball cards and bubble gum and only has dimes. If the baseball cards cost $3.25 and the bubble gum costs seventy-five cents, and he wants to buy three packs of each, how many dimes will he need to pay?	120 [dimes]
4	Toby is twelve years old, Michael is eight years old, and Clark is fifteen years old. What was the sum of their ages five years ago?	20 [years]
5	Jordan can run a mile in five minutes while Peter can run a mile in six minutes. If they start at the same time, how much distance, in miles, will be between Jordan and Peter after an hour has passed?	2 [miles]
6	Right now it is 7:18 PM. If I ate lunch at 11:37 AM, how many minutes ago was that?	461 [minutes]
7	How many lines of symmetry does a regular hexagon have?	6 [lines]
	Extra Problem – Only if Needed	
8	What is the remainder when 360 is divided by 13?	9

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Set B

COLLEGE KNOWLEDGE BOWL ROUND #2

#	Problem	Answer
1	Eight people are sitting around a circular table. If they only shake hands with the people immediately next to them, how many handshakes occur?	8 [handshakes]
2	What is the smallest palindrome larger than 498?	505
3	How many hours are in 2 weeks and 3 days?	408 [hours]
4	Express 2/7 as a decimal rounded to the nearest ten-thousandth.	.2857
5	There are dogs chasing chickens in a field. There are 16 heads and 42 legs, how many dogs are there?	5 [dogs]
6	What is the product of the sum of 5 and 6 and the difference of 12 and 3?	99
7	The ratio of boys to girls in a math competition is 3:5. If there are 400 competitors, how many boys are there?	150 [boys]
	Extra Problem – Only if Needed	
8	Find the sum of eight squared and five squared	89

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Set B

COLLEGE KNOWLEDGE BOWL ROUND #3

#	Problem	Answer
1	Evaluate: 25 times 32	800
2	What is the seventh prime number?	17
3	I put 18 ounces of water outside on a hot day. I noticed 1/3 of the water evaporated. How many ounces of water do I have left?	12 [ounces]
4	A leaky faucet drips 2 ounces of water in 5 minutes. How long will it take for it to leak a quart of water? One quart is 32 ounces.	80 [minutes]
5	What is the third side of a triangle with a perimeter of 30 units and leg lengths of 5 units and 12 units?	13 [units]
6	Betsy lines up her white t-shirts numbered one through one hundred. If she grabs shirts numbered 23 through 68, how many shirts did she pick up?	46 [shirts]
7	What is the tens digit of the sum of 52, 37, and 41?	3
	Extra Problem – Only if Needed	
8	Find the sum of 15,346 and 42,532	57,878

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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	36 [grapes]		
2	30 [ft^2]		
3	12		
4	96 [hours]		
5	6 [sums]		
6	36 [sheep]		
7	1/2		
8	16		
9	[$] 55		
10	25 [m^2]		
11	15 [apples]		
12	1500 [letters]		
13	10 [birds]		
14	17		
15	128 [kilobytes]		
16	2 [miles]		
17	6 [stones]		
18	3		
19	7/20		
20	9 [days]		

	Answer	1 or 0	1 or 0
21	69 [feet]		
22	1 [foot]		
23	12		
24	2		
25	11		
26	720		
27	7 [ways]		
28	1/2		
29	8 [ables]		
30	94		
31	4 [llamas]		
32	219 [miles]		
33	48 [Kids]		
34	27		
35	72 [in^2]		
36	54 [un^2]		
37	13 [feet]		
38	42 [people]		
39	28 [% markdown]		
40	7/12		

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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	E ($1680)		
2	B		
3	C		
4	E ($1310.35)		
5	B		
6	A		
7	B		
8	D		
9	D		

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Final Score: KEY
First Score (out of 20)

School Name_____Team #_____

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	299		
2	255 [sec]		
3	D		
4	May		
5	8 [coins]		
6	8:31 PM		
7	7/6		
8	28		
9	31		
10	26 [sq units]		

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School:_____Team #_____

Proctor: _____ Room #_____Div _____

PRACTICE RELAY

Answer for person # 1	Answer for person # 2	Answer for person # 3	Answer for person # 4
72	**9**	**3/4**	**0**
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
3	**11**	**3**	**1/8**
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
50	**5**	**10**	**2**
1 or 0	1 or 0	1 or 0	2 or 0