

March 20, 1986

Bankers Life Company

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RE Annual High School Mathematics Examination

168 Iowa schools took part in the Thirty-Seventh Annual High School Mathematics Examination sponsored by the Mathematical Association of America, the Society of Actuaries, the Casualty Actuarial Society, the National Council of Teachers of Mathematics, Mu Alpha Theta, the American Statistical Association, and American Mathematical Association of two year colleges. Approximately 8,300 Iowa students took the exam along with over 400,000 students in the United States, Canada, Puerto Rico, Jamaica, Italy, the Virgin Islands, Guam, England, Hungary, Ireland, Luxembourg, Belgium and Australia.

The attached report lists the top 50 Iowa schools ranked by "teamscore" (sum of the scores of the school's top three students) for top-scoring participating schools.

The top five students, their parents, and teachers will be invited to spend a day in Des Moines as the guests of the Des Moines Actuaries Club. Prizes will be awarded followed by an afternoon of entertainment in Des Moines and a banquet that evening.

Undue importance should not be placed on the rankings on this test, since this is just one measure of performance. Credit for good work on this test can be given to many participants. Every participant this year took the same test as the top students in the nation. These students then participated in the American Invitational Mathematics Examination to qualify for this year's U.S. Mathematical Olympiad, the top eight of whom will represent the USA in the International Mathematical Olympiad this July.

Lillian Chen
Iowa Examination Coordinator

Attachment

A Member of

thePrincipal
Financial
Group

SUMMARY OF RESULTS OF
1986 AMERICAN HIGH SCHOOL MATHEMATICS EXAMINATION
IOWA SECTION

JOINTLY SPONSORED BY THE
MATHEMATICAL ASSOCIATION OF AMERICA
SOCIETY OF ACTUARIES * MU ALPHA THETA
AMERICAN STATISTICAL ASSOCIATION
NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS
AMERICAN MATHEMATICAL ASSOCIATION OF TWO YEAR COLLEGES
CASUALTY ACTUARIAL SOCIETY

SPONSORED IN IOWA BY THE
ACTUARIES CLUB OF DES MOINES

Iowa Students Scoring 100 Points Or More

<u>Student</u>	<u>School</u>	<u>Score</u>
David Dobson	Ames High School Ames, IA 50010	117
Richard Gates	East High School Des Moines, IA 50316	112
Joseph D. Ruth	City High School Iowa City, IA 52240	110
Christopher Wilson	Northern University High Sch. Cedar Falls, IA 50613	107
Jake Wyatt	Thomas Jefferson High School Cedar Rapids, IA 52404	107
John O'Connell	Wahlert High School Dubuque, IA 52001	107
Laurie Belin	Valley High School West Des Moines, IA 50265	107
Jayson Curry	Bettendorf High School Bettendorf, IA 52722	106
Randall J. Rogers	City High School Iowa City, IA 52240	106
Kathy Youngberg	Valley High School West Des Moines, IA 50265	106
Bill Slobotski	Newman High School Mason City, IA 50401	105
John Boelter	Valley High School West Des Moines, IA 50265	103

Bennett Brown	Valley High School West Des Moines, IA 50265	103
Dan Fuhrman	Valley High School West Des Moines, IA 50265	102
Brian Ness	Prairie High School Gowrie, IA 50543	102
Rebecca Frankel	West High School Iowa City, IA 52240	102
Vicky Gwiasda	Ames High School Ames, IA 50010	101
Jeff Vankley	Ankeny High School Ankeny, IA 50021	101
Matt Frueh	Wahlert High School Dubuque, IA 52001	101
Darin Nelson	Thomas Jefferson High School Cedar Rapids, IA 52404	100
John C. Spiegel	Jesup High School Jesup, IA 50648	100
Bob Ridenour	Valley High School West Des Moines, IA 50265	100
Doug Schulte	Valley High School West Des Moines, IA 50265	100

Iowa Students Winning First Place For 4 Consecutive Years

<u>Student</u>	<u>School</u>	<u>Score</u>
	NONE	

Iowa Students Winning First Place For 3 Consecutive Years

<u>Student</u>	<u>School</u>	<u>Score</u>
Tim Garrels	Van Buren Community High Sch. Keosauqua, IA 52565	80

Iowa Students Winning First Place For 2 Consecutive Years

<u>Student</u>	<u>School</u>	<u>Score</u>
Joseph D. Ruth	City High School Iowa City, IA 52240	110
Christopher Wilson	Northern University High Sch. Cedar Falls, IA 50613	107
Bill Slobotski	Newman High School Mason City, IA 50401	105
Brian Ness	Prairie High School Gowrie, IA 50543	102
John C. Spiegel	Jesup High School Jesup, IA 50648	100
Joel Bruhn	Newton High School Newton, IA 50208	98
J. D. Kuehl	Atlantic High School Atlantic, IA 50022	97
James Retz	Glenwood High School Glenwood, IA 51534	95
Steve Lauen	Meservey-Thornton High School Thornton, IA 50479	95
Mark Johnson	Prairie High School Cedar Rapids, IA 52401	93
George Snyder	Center Point Jr-Sr High School Center Point, IA 52213	92
David Vetter	Mount Pleasant High School Mt. Pleasant, IA 52641	86
Steven A. Baird	Fox Valley Comm High School Milton, IA 52570	83
Jeff Koch	Adel Junior-Senior High School Adel, IA 50003	82

Iowa Students In Grades 10 Or Less With A Score Of 90 Or Above

<u>Student</u>	<u>School</u>	<u>Grade</u>	<u>Score</u>
Jayson Curry	Bettendorf High School Bettendorf, IA 52722	10	106
Randall J. Rogers	City High School Iowa City, IA	9	106
Dan Fuhrman	Valley High School West Des Moines, IA 50265	10	102
Colby Green	Bettendorf High School Bettendorf, IA 52722	10	97
Caleb Rush	Dowling High School West Des Moines, IA 50265	10	97
Margaret Feeney	Assumption High School Davenport, IA 52804	10	96
Chuck Smith	Assumption High School Davenport, IA 52804	10	94
Tom Wagener	Wahlert High School Dubuque, IA	10	94
Scott Clifford	Wahlert High School Dubuque, IA	10	92
Jeffrey McCollum	Bettendorf High School Bettendorf, IA 52722	10	91
Jeff Jensen	Manning Senior High School Manning, IA 51455	10	91
Eric McLuen	Indianola High School Indianola, IA 50125	10	90
Dan Toft	Valley High School West Des Moines, IA 50265	8	90
Mark Van Der Weide	East High School Sioux City, IA 51106	10	90

The Top 50 Iowa Teams - 168 Participating Schools

<u>Rank</u>	<u>School</u>	<u>Team Members</u>	<u>Score</u>	<u>Team Score</u>
1	Ames High School Ames, IA 50010	David Dobson Vicky Gwiasda Heather Dodd	117 101 99	317
2	Valley High School West Des Moines, IA 50265	Laurie Belin Kathy Youngberg John Boelter Bennett Brown	107 106 103 103	316
3	City High School Iowa City, IA 52240	Joseph D. Ruth Randall J. Rogers Jeffery S. Hsu	110 106 95	311
4	Wahlert High School Dubuque, IA 52001	John O'Connell Matt Frueh Maria Rhomberg	107 101 98	306
5	Thomas Jefferson High School Cedar Rapids, IA 52404	Jake Wyatt Darin Nelson Todd Cronbaugh	107 100 90	297
6	Bettendorf High School Bettendorf, IA 52722	Jayson Curry Colby Green Jeffrey McCollum	106 97 91	294
7	West High School Iowa City, IA 52240	Rebecca Frankel Phillip Swack Tammy Mildenstein	102 98 92	292
8	East High School Des Moines, IA 50316	Richard Gates Eirik Ackerman Jeff Koll	112 92 86	290
9	Ankeny High School Ankeny, IA 50021	Jeff Vankley Kristine Kuhn Emi Park	101 92 89	282

<u>Rank</u>	<u>School</u>	<u>Team Members</u>	<u>Score</u>	<u>Team Score</u>
9	Charles City High School Charles City, IA 50616	Kelly Kingery Stephen Wynn Dave Sullivan	99 92 91	282
11	Dowling High School West Des Moines, IA 50265	Caleb Rush Brian Leto Dean Schmitz	97 94 88	279
11	Regina High School Iowa City, IA 52240	Michael D. Brennan Lawrence E. Parks Shawn M. Douglas	95 93 91	279
13	Atlantic High School Atlantic, IA 50022	J. D. Kuehl Pete Bowers David Eskew David Schrum	97 94 86 86	277
13	Muscatine High School Muscatine, IA 52761	Tim Shoppa Jeff Honnold Scott Denker	99 95 83	277
15	Hempstead Senior High School Dubuque, IA 52001	Ellen Barth Don Beck Angela Seeley	93 92 91	276
15	North Scott High School Eldridge, IA 52748	Dean DeCock Brian Granger Stephanie Servin	98 90 88	276
15	Pleasant Valley Comm High Sch Pleasant Valley, IA 52767	Steven A. Noth Lisa M. Alter Chris J. Criswell	94 92 90	276
18	Assumption High School Davenport, IA 52804	Margaret Feeney Chuck Smith William Hummel	96 94 85	275
18	Fort Dodge High School Ft. Dodge, IA 50501	Mary Stevenson Brad Wilson Kent Johnson	99 91 85	275

<u>Rank</u>	<u>School</u>	<u>Team Members</u>	<u>Score</u>	<u>Team Score</u>
20	Newman High School Mason City, IA 50401	Bill Slobotski Michael Schintgen Clark Crowell	105 88 81	274
21	Abraham Lincoln High School Des Moines, IA 50315	Chris E. DeLury Donna M. Choido Jeff A. Richards	95 89 88	272
21	Prairie High School Gowrie, IA 50543	Brian Ness Eric Hougen Chris Ellsbury	102 86 84	272
23	Hartley-Melvin Community HS Hartley, IA 51346	Alan White Paul Ahlers Nancy Tanner	91 91 89	271
23	Heelan High School Sioux City, IA 51105	Joseph Collette Michael Tott Jane Auh	93 90 88	271
25	Thomas Jefferson High School Council Bluffs, IA 51501	Timothy A. Gunzenhauser Christopher A. Schwartz Sean P. Meekins	92 89 89	270
26	Cedar Falls High School Cedar Falls, IA 50613	Marcia L. Agness Jon A. Ford Steve D. Scholz	93 90 85	268
26	Williamsburg High School Williamsburg, IA 52361	Kyle Jennings Cale Thompson Robert Elwood	92 89 87	268
28	Newton High School Newton, IA 50208	Joel Bruhn Rebecca Rey Brian Steckelberg	98 87 82	267
28	Ottumwa High School Ottumwa, IA 52501	Paige Crane Pam Dommer Kelly Poort	92 89 86	267

<u>Rank</u>	<u>School</u>	<u>Team Members</u>	<u>Score</u>	<u>Team Score</u>
28	Southeast Polk Jr-Sr High Sch. Runnells, IA 50237	William Pence David Fischer Vickie Babcock	91 90 86	267
31	Hoover High School Des Moines, IA 50310	Pat Solomon Chad Carber Eric Hopp	95 91 80	266
32	East High School Sioux City, IA 51106	Mark Van Der Weide Chad Wolf Eric Lawrence	90 89 86	265
32	North High School Sioux City, IA 51104	Marty Walsh Joe Japel Lauri Washington	91 88 86	265
32	Storm Lake Senior High School Storm Lake, IA 50588	Kevin Steck Brian Havens Brent McVay	96 85 84	265
35	Indianola High School Indianola, IA 50125	Eric McLuen Bob Krapfl John Fetters	90 86 86	262
35	Jesup High School Jesup, IA 50648	John C. Spiegel Steven A. Samec Serin Phruttitum	100 82 80	262
37	Boone High School Boone, IA 50036	Patty Ades James Bass Adam Weedman	94 84 83	261
38	Greene Jr-Sr High School Greene, IA 50636	Tim Christensen Robin Taylor Angela Brinkman	88 88 84	260
38	Pella Christian High School Pella, IA 50219	Mike Strickler Connie DeRonpe Bill Vande Haar Christy VerMeer	92 86 82 82	260

<u>Rank</u>	<u>School</u>	<u>Team Members</u>	<u>Score</u>	<u>Team Score</u>
38	Sentral Jr-Sr High School Fenton, IA 50539	Michele J. Vaudt Barry D. Preston Jay E. Hoff	89 89 82	260
41	Webster City High School Webster City, IA 50595	Ruth Brain Scott Neuroth Russ Chalfant	90 89 80	259
42	George Washington High School Cedar Rapids, IA 52403	Andrew Heidt Robert Mayes Phan Nguyen	89 85 84	258
42	Glenwood High School Glenwood, IA 51534	James Retz Douglas Wignall Tony Boles	95 82 81	258
42	Mason City High School Mason City, IA 50401	Amy Stroup Mike Fick Robert Patton	87 86 85	258
42	North Fayette Community School West Union, IA 52175	Robert Sieck Aaron Bicknese Michael Meyer	88 86 84	258
46	Beckman High School Dyersville, IA 52040	Phil Welling Angie Schmuecker Paul Heid	92 84 81	257
46	Center Point Jr-Sr High School Center Point, IA 52213	George Snyder Jody Barrick James Mann	92 87 78	257
46	Clinton High School Clinton, IA 52732	Susan Petheram John Gluesing Beth Krubbenhof	87 85 85	257
46	Columbus High School Waterloo, IA 50702	Vince W. Schons Artie Paar Dan R. Kabele	93 83 81	257

<u>Rank</u>	<u>School</u>	<u>Team Members</u>	<u>Score</u>	<u>Team Score</u>
46	Pocahontas Community School Pocahontas, IA 50574	Richard S. Yoder John M. Ballard Todd R. Beneke Jodi L. Marcellus	88 87 11 11	257

Frequency Distribution of Iowa Teams

<u>Score</u>	<u>Number of Teams Achieving this Score</u>	<u>Score</u>	<u>Number of Teams Achieving this Score</u>
317	1	244	3
316	1	243	1
311	1	241	2
306	1	240	1
297	1	239	3
294	1	238	4
292	1	237	2
290	1	236	2
282	2	234	6
279	2	233	3
277	2	232	5
276	3	230	3
275	2	229	5
274	1	228	4
272	2	227	2
271	2	226	2
270	1	225	5
268	2	223	3
267	3	222	4
266	1	221	1
265	3	219	3
262	2	218	2
261	1	213	2
260	3	212	1
259	1	211	1
258	4	210	3
257	5	209	2
256	1	207	1
255	1	206	3
254	1	205	2
253	3	204	2
252	3	203	1
250	6	201	1
249	4	198	1
247	2	197	1
246	1	192	1
245	4		