

2007 Nevada K-12 Statistics Poster Competition



Sponsored by: Nevada Chapter of the American Statistical Association
Southern Nevada Regional Professional Development Program
Nevada Mathematics Council
University of Nevada-Las Vegas
University of Nevada-Reno

What is the purpose of the competition?

The sponsors of this competition recognize the need to promote and develop quantitative literacy in the elementary, middle, and high school grades. State and national standards include problem solving as a critical strand in the learning of mathematics. This competition provides students with an opportunity to express creativity in the graphical analysis and interpretation of data, produced or gathered themselves in a problem-solving atmosphere.

What is a statistical poster?

A *statistical poster* is a display containing one or more related graphics that summarize data, that examine the data from different points of view, and that answer specific questions about the data.

Who may enter the competition?

All students in grades K through 12 in the State of Nevada are eligible to enter. Entries are judged in four grade categories:

- Category 1: K–3
- Category 2: 4–6
- Category 3: 7–9
- Category 4: 10–12

What is the entry fee?

There is no entry fee for this competition.

What is the deadline for submission?

All posters must be **received** by February 16, 2007. If mailed, ship to the following address:

Nevada Statistics Poster Competition
Attn: David Thiel, SNRPDP
515 W. Cheyenne Ave., Suite D
North Las Vegas, NV 89030

Multiple entries from the same school may be mailed together. It is recommended that they be shipped flat between two sheets of cardboard.

Who will judge the entries?

Statisticians and educators from the State of Nevada judge all entries. All decisions by the judges are final. Prizewinners will be announced by March 2, 2007. State winners' posters will be submitted to the national statistics poster competition sponsored by the American Statistical Association.

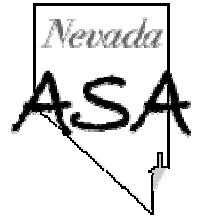
What are the judging criteria?

- **Clarity** of the message's demonstration of important relationships and patterns, obvious conclusions, and ability to stand alone, even without the explanatory paragraph on the back.
- **Thoughtfulness** of the purpose of the investigation and methods of data collection.
- **Appropriateness** of the graphics for the data.
- **Overall impact** of the display for eye-catching appeal and visual attractiveness; for its ability to draw in the viewer to investigate the individual graphs. *More than one graph is required in the 4–6, 7–9, and 10–12 categories. That is, there must be at least two graphs that summarize **different aspects** of the data. Multiple representations of the same information—such as a bar graph and a pie chart-- are considered a single graphic.*
- **Creativity.**

What prizes are awarded?

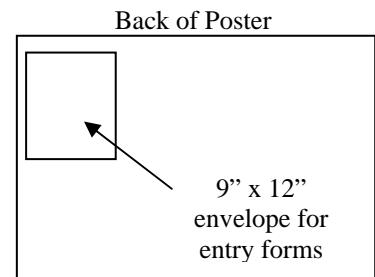
In each of the four grade-level categories cash prizes of \$72, \$48, and \$24 will be awarded for 1st, 2nd, and 3rd place, respectively, based upon rates of participation. Other awards of recognition are also presented.

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What are the rules?

- Posters must measure between 18 and 24 inches high and 24 and 30 inches wide.
- Any weight of paper is permitted. Standard poster board is recommended.
- Any layers of paper on posters must be affixed securely. Building a third dimension on the poster with paper or other objects is prohibited.
- Posters must be the original design and creation of the entrants themselves. Computer graphics may be used.
- Subject matter is the choice of the participant(s).
- More than one graph is required in the 4–6, 7–9, and 10–12 categories. *That is, there must be at least two graphs that summarize **different aspects** of the data. Multiple representations of the same information—such as a bar graph and a pie chart-- are considered a single graphic.*
- An example of the original data, brief descriptions of method of data collection and purpose of the investigation must be affixed securely to the back of the poster. (Cite references for published data.)
- Students may work individually or in teams. For those in the K–3 category, there is no restriction on the size of the team; it may be as large as the entire class. For other categories, the maximum number of students per team is four. For teams with members from different grade levels, the highest grade level represented determines the entry category.
- **The poster itself must give no information that identifies the participant(s), team, or school.**
- **Two copies of the entry form must be completed and placed in a 9" x 12" envelope affixed securely to the back of the poster. (See diagram.)**
- Posters not meeting **all** of the above requirements will be disqualified.



What permissions do participants grant?

All posters become property of the competition organizers and will not be returned. By submitting a poster, students give permission for their work to be displayed at conferences and events, in publications and promotional material, and in electronic format on the Internet, by both the American Statistical Association and its Nevada Chapter.

Who should be contacted for further information?

David Thiel
Southern Nevada RPDP
515 W. Cheyenne Ave., Suite D
North Las Vegas, NV 89120
(702) 799-3828 x256
dthiel@interact.ccsd.net

Are there any suggested reference materials?

- **New!** Nevada Chapter of ASA Poster Competition Guidebook, to be released in Fall 2006. (Contact David Thiel via e-mail to be notified upon its release.)
- Nevada Chapter of ASA Poster Competition Web page, where one may view previous winning posters. www.nevada.edu/~nvasa/
- American Statistical Association Poster Competition Web page, where one may view previous winning posters. www.amstat.org/education/index.cfm?fuseaction=poster1
- Curcio, F.R. (2001), *Developing Data-Graph Comprehension in Grades K–8*. The National Council of Teachers of Mathematics. www.nctm.org
- Landwehr, J.M. and Watkins, A.E. (1987). *Exploring Data*, Palo Alto, CA: Dale Seymour Publications. www.pearsonlearning.com
- Tufte, E.R. (1983). *The Visual Display of Quantitative Information*, Cheshire, CT: Graphics Press. www.amazon.com
- *Math on Call: A Mathematics Handbook* (1998), Wilmington, MA. Great Source Education Group. www.greatsource.com
- *Take It to the MAT* Newsletters. Click on the Math Newsletters link. www.rpd.net

For more information about the Nevada Chapter of the American Statistical Association, go to www.nevada.edu/~nvasa/

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Entry Form

Please print clearly or type.

Grade Category: K-3 _____ 4-6 _____ 7-9 _____ 10-12 _____

Title of Poster: _____

Name of School: _____

School Address: _____

City/State/ZIP: _____ County: _____

Faculty Advisor(s): _____

Faculty Advisor(s) e-mail Address(es): _____

School Phone: (_____) _____ Last date in 2007 that an award could be presented: _____

Student(s) Full Name(s) and Grade Level(s).
(if a K-3 group is larger than four students, use additional forms)

1. _____ Grade: _____
2. _____ Grade: _____
3. _____ Grade: _____
4. _____ Grade: _____

I/we verify that this is my/our original work. I/we understand that my/our entry becomes the property of the competition organizers and I/we understand that it may be submitted to the 2007 American Statistical Association Statistics Poster Competition.

Student signature(s):

Faculty Advisor signature(s):

Two copies of this entry form must be completed and placed in a 9" x 12" envelope affixed securely to the back of the poster. (See diagram on Rules and Information page 2.)