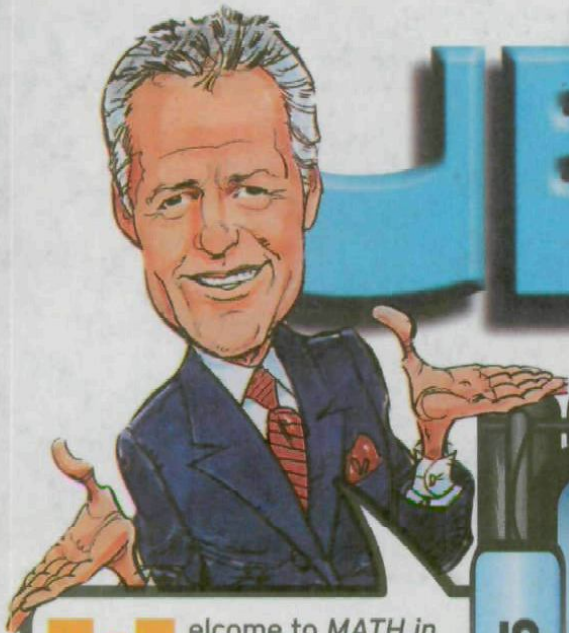# MATH in JEOPARDY

Welcome to *MATH in Jeopardy!* I'm your host, Smart-Alec Treblecch. Yes, I was unsuccessful in my campaign running for U.S. President, getting only 12 votes nationwide. It's OK; this is a pretty good job too. I get to present categories such as: Number Theory, Pre-Algebra, Computation, Statistics, and Fractions. But Mr. Obama, if you need someone to run the U.S. Department of Game Shows, you know who to call!

—by Dale Beltzner

WHAT TO DO

✔ Fill in the circle next to each correct question.
✔ After you've completed every question on the board, check your solutions against those listed on page 3.
✔ Add up the dollar values of each correct question to find out how much fake money you won!
✔ Check the "Ratings" box at the upper right of page 13 to see how well you did.

NUMBER THEORY

$25

ANSWER: PRIME NUMBERS
What is the word used to describe the set of numbers...
Ⓐ {2, 3, 5, 7, 11}?
Ⓑ {1, 3, 5, 7, 9}?
Ⓒ {1, 2, 3, 5, 7}?

$50

ANSWER: 64
What is the value of...
Ⓐ 2^4?
Ⓑ 3^3?
Ⓒ 4^3?

$75

ANSWER: TENTHS
Which place value is 100 times greater than the...
Ⓐ hundredths?
Ⓑ thousandths?
Ⓒ ten thousandths?

$100

ANSWER: 8,706
What is the value of...
Ⓐ $(8 \times 10^3) + (7 \times 10^2) + (6 \times 10^0)$?
Ⓑ $(8 \times 10^4) + (7 \times 10^3) + (6 \times 10^2)$?
Ⓒ $(8 \times 10^3) + (7 \times 10^1) + (6 \times 10^0)$?

PRE-ALGEBRA

$25

ANSWER: EXPRESSION
What is the term for a...
Ⓐ number sentence with an equal sign?
Ⓑ group of numbers and symbols representing a value?
Ⓒ number sentence with a < or > sign?

$50

ANSWER: 82
What is the value of the expression...
Ⓐ $8^2 + 6 \times 3$?
Ⓑ $6 \times 7 + 5^2$?
Ⓒ $2 \times 9^2 + 1$?

$75

ANSWER: ORDER OF OPERATIONS
What is the set of rules followed in solving the problem...
Ⓐ $4^2 + 3 \times 2 - 1 = 21$?
Ⓑ $4^2 + 3 \times 2 - 1 = 37$?
Ⓒ $4^2 + 3 \times 2 - 1 = 19$?

$100

ANSWER: COMMUTATIVE PROPERTY
What is the property shown by...
Ⓐ $3 \times 2 \times 5 = 5 \times 3 \times 2$?
Ⓑ $3 \times (2 \times 5) = (3 \times 2) \times 5$?
Ⓒ $75 \times 9 = (70 \times 5) + (5 \times 9)$?

RDY

RATINGS

$1,050 – $1,250
You've been elected President of Math! See you at the inauguration!

$850 – $1,025
Congratulations, you're Vice President!

$675 – $825
The President names you to the Cabinet.

$500 – $650
Study hard, and try again next election.

Below $500
The President makes you sit in a cabinet.

COMPUTATION

ANSWER: 132 SQUARE FEET
Using the formula *length* × *width* = *area* (in square units), what is the area of a room where...

Ⓐ length = 14 ft and width = 8 ft?
Ⓑ width = 16 ft and length = 17 ft?
Ⓒ width = 11 ft and length = 12 ft?

ANSWER: 2, 3, 5, 6, 9
Using divisibility rules, what numbers greater than 1 and less than 10 can be evenly divided into...

Ⓐ 45?
Ⓑ 90?
Ⓒ 196?

ANSWER: 1 HOUR, 26 MINUTES
What is the amount of time Linda played basketball if she started at 11:53 a.m. and ended at...

Ⓐ 1:09 p.m.?
Ⓑ 1:29 p.m.?
Ⓒ 1:19 p.m.?

ANSWER: 162.75
What is the product of...

Ⓐ 18.5 × 7.5?
Ⓑ 15.7 × 5.5?
Ⓒ 17.5 × 9.3?

STATISTICS

ANSWER: BAR GRAPH
Which type of graph best shows...

Ⓐ change over time?
Ⓑ comparisons among different amounts?
Ⓒ amounts as parts of a whole?

ANSWER: DOUBLE-LINE GRAPH
Which graph best compares the...

Ⓐ number of items in two sets of objects?
Ⓑ changes between two amounts over time?
Ⓒ number of parts in a whole?

ANSWER: SYMBOL
What is used to represent amounts on a...

Ⓐ line graph?
Ⓑ circle graph?
Ⓒ pictograph?

ANSWER: 30 SECONDS PER LAP
What is the rate of a swimmer who swam...

Ⓐ 10 laps in 300 seconds?
Ⓑ 60 laps in 500 seconds?
Ⓒ 80 laps in 240 seconds?

FRACTIONS

ANSWER: 1, 2, 3, 4, 6, 8, 12, 24
What are all the factors of...

Ⓐ 24?
Ⓑ 48?
Ⓒ 2?

ANSWER: $\frac{1}{3}$
What is the simplest form of...

Ⓐ $\frac{16}{24}$?
Ⓑ $\frac{3}{12}$?
Ⓒ $\frac{17}{51}$?

ANSWER: .03
As a decimal number, what is...

Ⓐ $\frac{3}{10}$?
Ⓑ $\frac{3}{100}$?
Ⓒ $\frac{3}{1000}$?

ANSWER: $3\frac{1}{3}$
What is the mixed number form of...

Ⓐ $\frac{6}{3}$?
Ⓑ $\frac{10}{3}$?
Ⓒ $\frac{4}{3}$?