

STEM



2023 Student Activity Conference

Number Sense – A Mental Math Contest

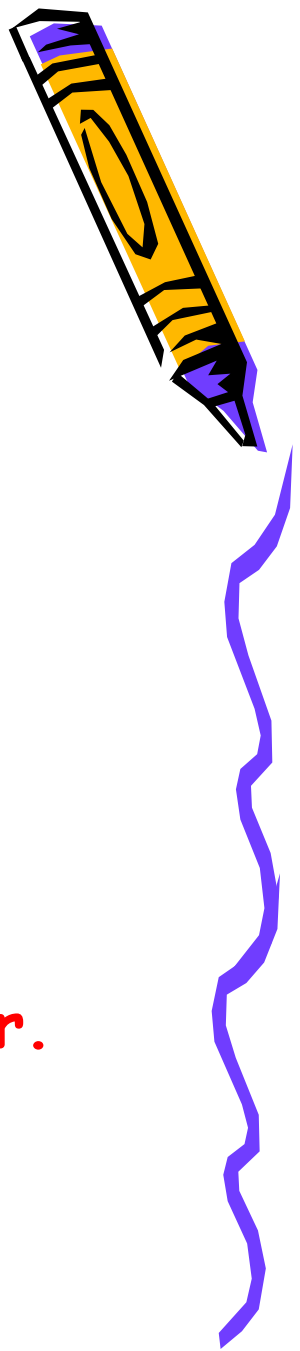
Larry White, state contest director



What is unique about this number besides that it contains all ten digits?

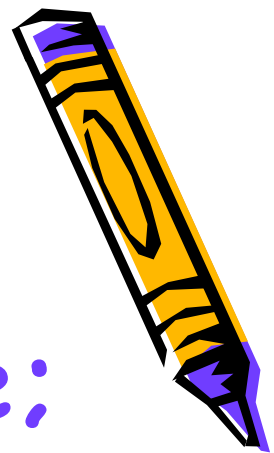
8549176320

The digits are listed in alphabetical order.



Be sure to ...

- sign in using the QR code;
- clean up your area when you leave;
- and
"HAVE A GREAT DAY"



UIL Number Sense Contest

Larry White

Box 25

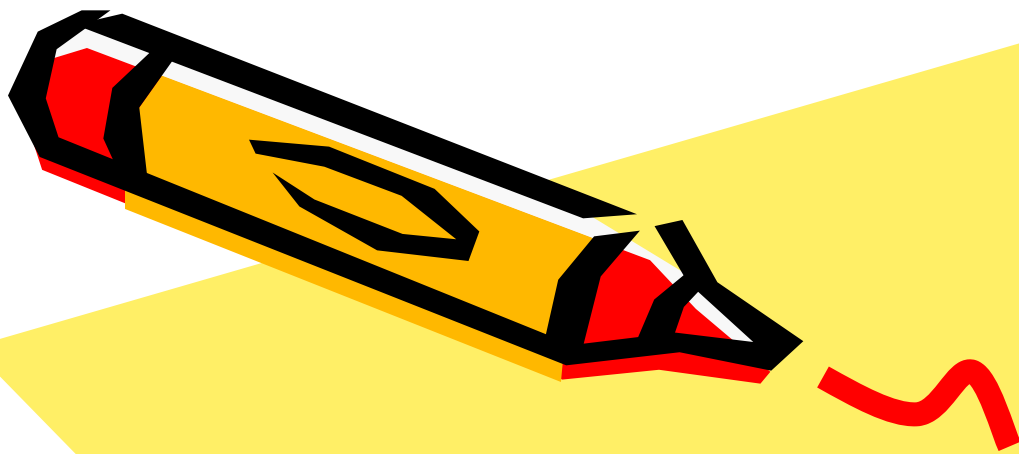
Millersview, Tx 76862

325-483-5446

texasmath@centex.net

UIL State Number Sense Contest Director





NUMBER SENSE - MENTAL MATHEMATICS
A Chronology of the Texas
University Interscholastic League
Number Sense Contest
by Larry White,
UIL State Number Sense Director



The 278-page **Number Sense Chronology** is finished. It has taken a while. It was a lot of work, but well worth it in my opinion. I hope you will find it as interesting and enjoyable as I did while doing it. There is a link on my UIL number sense page, <https://www.uiltexas.org/academics/stem/number-sense> to download and/or view the chronology. I decided not to publish it or accept any compensation for it. It was just something I wanted to give to UIL for their archives and offer it to anyone interested in the number sense contest, one of the oldest UIL contests. My wife and I have set up an annual TILF scholarship to help two competitors (one girl and one boy) each year as they head to college. You can get the scholarship information from the TILF webpage (<https://www.tilfoundation.org/scholarships/list/>). There is no charge for downloading, viewing, or sharing this chronology, but if you would like to donate to the newly created TILF "Larry and Mona White Number Sense Scholarship," you can do so on the TILF webpage (<https://www.tilfoundation.org/donate/become-a-donor/>). If and when enough donations come in we will be able to add a third or fourth scholarship besides the two my wife and I are giving. I hope you enjoy this chronology.





Announcements and Test
Corrections/Discussions

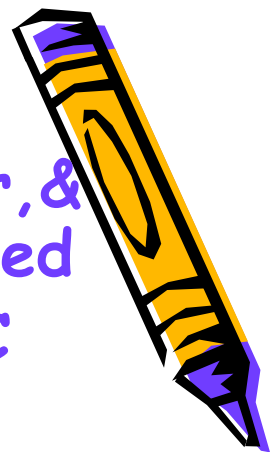
<http://www.uiltexas.org/academics/stem>



Tests I will write for this year

- 2023 SAC -- release: Odessa, Austin, Prosper, & Corpus Christi. SAC info and tests will be posted on UIL web page after the Corpus Christi SAC
- TMSCA #6 (UIL C) --- Release: 12/9/23
- UIL A --- Release: 1/05/24-2/03/24
- UIL B --- Release: 2/9/24-3/9/24
- TMSCA #13 (UIL D) --- Release: 3/2/24
- TMSCA State --- Release: 3/23/24
- TMSCA District Warmup --- Release: 3/18/24
- District --- Release: 4/1/24-4/6/24
- Regional --- Release: 4/26/24-4/27/24
- State --- Release: 5/13/24-5/15/24

and 12 HEXCO Practice tests
(6 Fall 2023 and 6 Spring 2024)





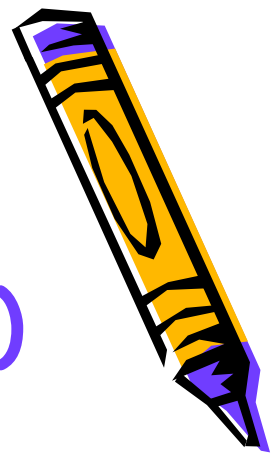
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NUMBER SENSE

Contest Rules



Rules for Competition



- 80 problems (see sequence chart)
- 10 minutes
- No scratch work - no erasing - no marking over
- + 5 points for each correct answer
- - 4 points for incorrect or skipped (up to the last one attempted)



Rules for Competition

(continued)



- * problems (10, 20, 30, ..., 80) are estimation problems (+ or -5% error)
- types of problems --see sequence chart
- Grading and scoring rules are found in the 2023-2024 UIL Number Sense Handbook.





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RESOURCES



Texas Math & Science Coaches Association

TMSCA

www.tmsca.org

Contact: Julie Majewski-Smith
940-563-1005

execsectmsca@gmail.com

Newsletter - Resource Page - Tests - Forms



Books and practice materials

No Sense in Mathematics -

Don Skow (don31pi@outlook.com)

RAM Materials -

Leo Ramirez (www.rammaterials.com)

AMT Test Writing Service

Andy Zapata (adzapata74@gmail.com)

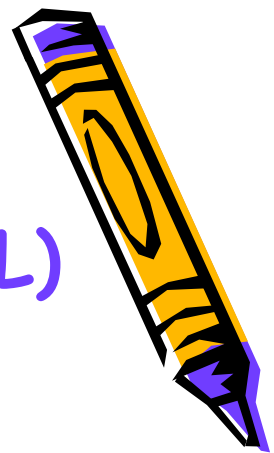
Middle School and High School Packets

Dr. John Hobbs (call 972-442-3168)



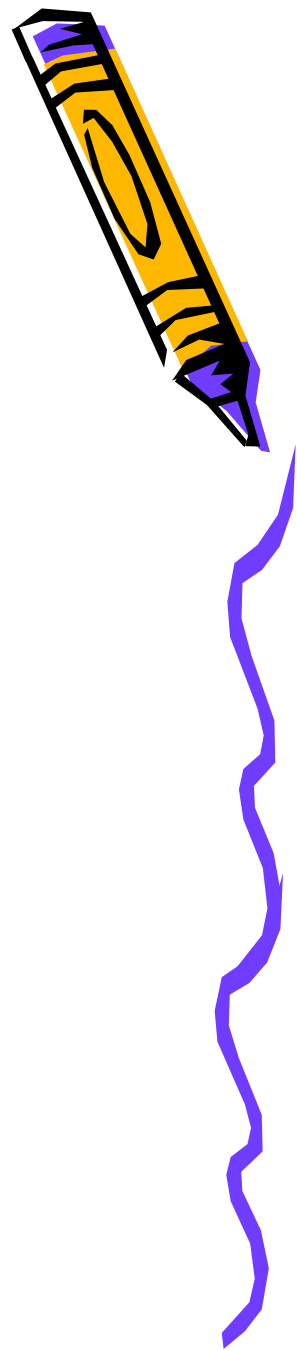
Practice tests

- University Interscholastic League (UIL)
(<http://www.uil.utexas.edu/>)
- Texas Math and Science Coaches Association (TMSCA)
(<http://www.tmsca.org>)
- *RAM Materials* - Leo Ramirez
(www.rammaterials.com)
- AMT Test Writing Service - Andy Zapata
(adzapata74@gmail.com)
- Hexco - Linda Terrant
(<http://www.hexco.com>)



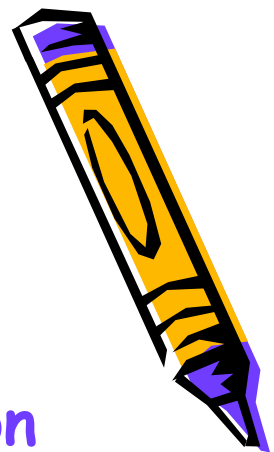
Computer Software

- Number Sense Computerized -
by Larry White
(texasmath@centex.net)
- UIL Number Sense Mental Math
Mentor
(<http://www.hexco.com>)



Websites

- UIL - www.uiltexas.org/academics
- TMSCA - www.tmsca.org
- Virtual Challenge Meet - Chuck Thompson
www.virtualchallengemeets.com
- Number Dojo - www.numberdojo.com
- Number Sense Tricks
<http://bryantheath.com/number-sense-tricks-manual/>
- Math Ninja - Anthony Gillespey
<http://mathninja.org/math-team/number-sense-video-lesson-and-workbook/>





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Special
Information



Items of Interest

- Education Academy- *Javiar Garcia & Juan Garcia*
<https://educationacademy.xyz/home>
- Texas Math Mundo - Saul Cantu
<https://www.youtube.com/channel/UCDHQCWfSMjNJJS0aJx8jITw/videos>
<https://discord.gg/2pmuWCpYUa>
- "The Magic of Mental Math" by
George Zhang - Sunnyvale High School
- <https://drive.google.com/file/d/1hqTI7aWRQdCbMjns94Ic0LuG0DCfLr-q/view>



Items of Interest

- Joe Cuelar - TheNumberSense400@gmail.com
<https://www.youtube.com/@TheNumberSense/videos>
- Investigative Math - Ayden Gertizer
<https://www.youtube.com/@investigativemath4965/featured>
- What's Your Problem - Math and Science Summer Camp
contact: jackbarton@ttu.edu 806-742-2350
- Sabine Summer Camp -
contact: Keith Taylor





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Mandatory
Memorization



Need to Memorize

- First 35 Squares
- First 15 Cubes
- First 10 Square Roots to 3-decimals
- One-zees from $1/2$ to $1/12$ and $1/16$ - percents, fractions, decimal equivalencies
- Roman Numerals
- Remainder Rules-2,3,4,5,6,7,8,9,10,& 11
- Estimation Strategies

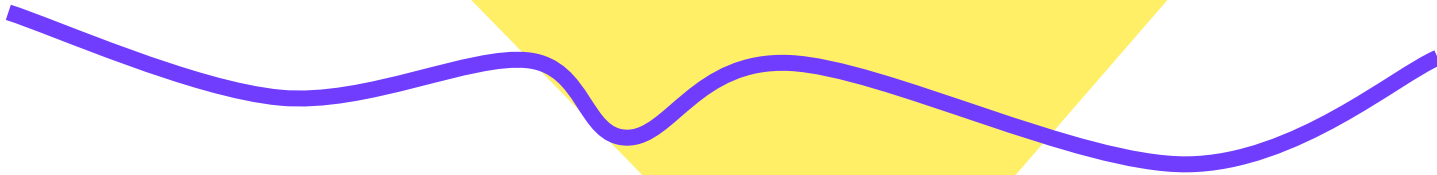




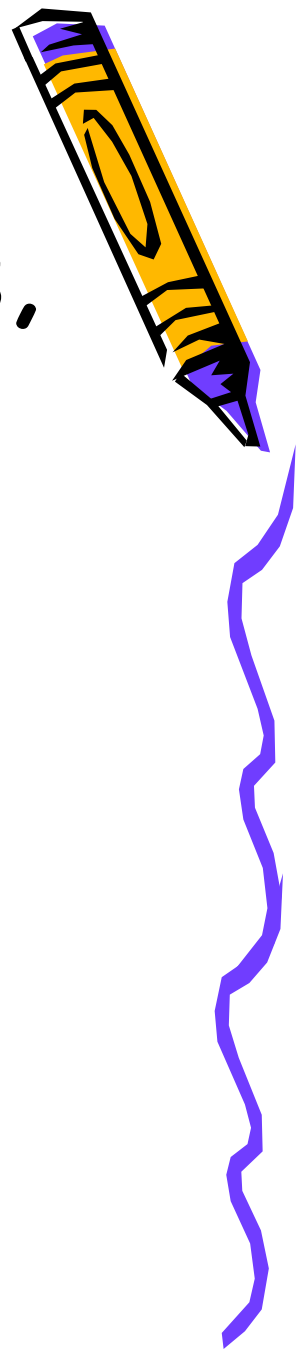
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NUMBER SENSE

Questions & Answers



If you have some questions,
I have some answers.



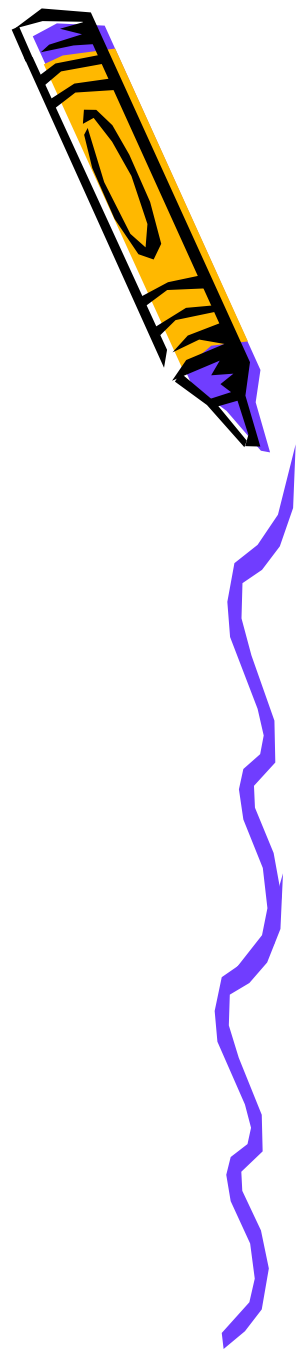
Otherwise, it is
Time for the

UIL HS SAC 2023 test



What did the number 0
say to the number 8?

Nice belt!





HAVE A
GREAT
DAY!

And remember, number sense is just

MIND OVER "MATH-ER"

