



Before We Get Started

Remember to register your attendance
and
complete session evaluations.

Session numbers are in your program.



Attendance



Online Handouts



**Session
Evaluations**

STEM

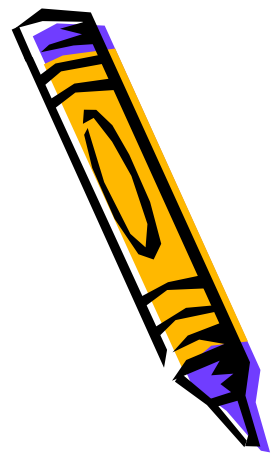


2022 Student Activity Conference

Number Sense – A Mental Math Contest

Larry White, state contest director





3, 5, 8, 11, 16, 19, K, 27 ...

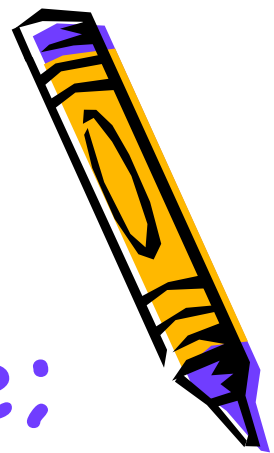
$$K = 24$$

2,	3,	5,	7,	11,	13,	17,	19
1,	2,	3,	4,	5,	6,	7,	8



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





Announcements and Test
Corrections/Discussions

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



Tests I will write for this year

- 2022 SAC -- release: Tyler, Lubbock, Austin, & Edinburg SACs -- will be posted on UIL web page after the Edinburg SAC
- TMSCA #6 (UIL C) --- Release: 12/10/23
- UIL A --- Release: 1/06/23-2/04/23
- UIL B --- Release: 2/10/23-3/11/23
- TMSCA #13 (UIL D) --- Release: 3/4/23
- TMSCA State --- Release: 3/18/23
- TMSCA District Warmup --- Release: TBA
- District --- Release: 3/20/23-3/25/23
- Regional --- Release: 4/21/23-4/22/23
- State --- Release: 5/17/23-5/18/23



and 12 HEXCO Practice tests
(6 Fall 2022 and 6 Spring 2023)

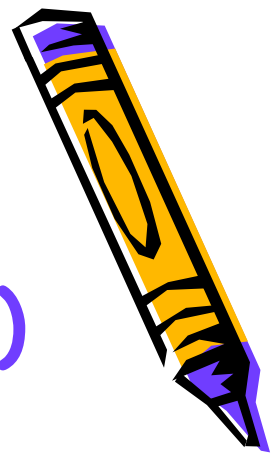


UIL
NUMBER SENSE

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 2022-2023 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)

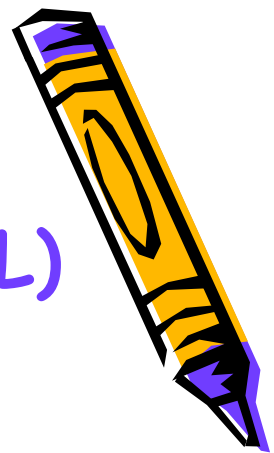
Middle School and High School Packets

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



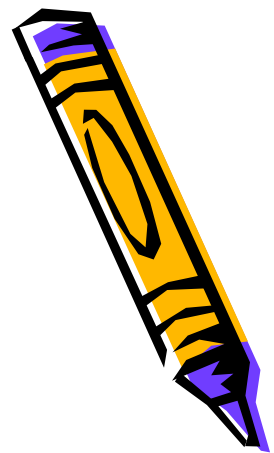
Practice tests

- 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 - www.virtualchallengemeets.com
- Number Dojo - www.numberdojo.com
- Number Sense Tricks
<http://bryantheath.com/number-sense-tricks-manual/>
- Math Ninja
<http://mathninja.org/math-team/number-sense-video-lesson-and-workbook/>





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Special
Information



Items of Interest

- Education Academy -
<https://educationacademy.xyz/home>
- Texas Math Mundo -
<https://www.youtube.com/channel/UCDHQCWfSMjNJJ50aJx8jITw/videos>
- “The Magic of Mental Math” by
George Zhang - Sunnyvale High School
- <https://drive.google.com/file/d/1hqTI7aWRQdCbMjns94Ic0LuG0DCfLr-q/view>





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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

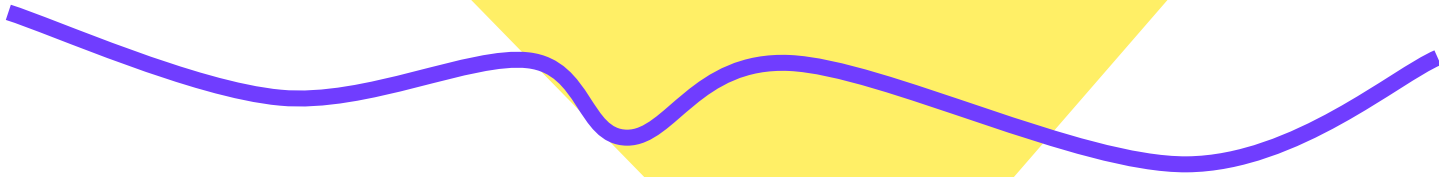




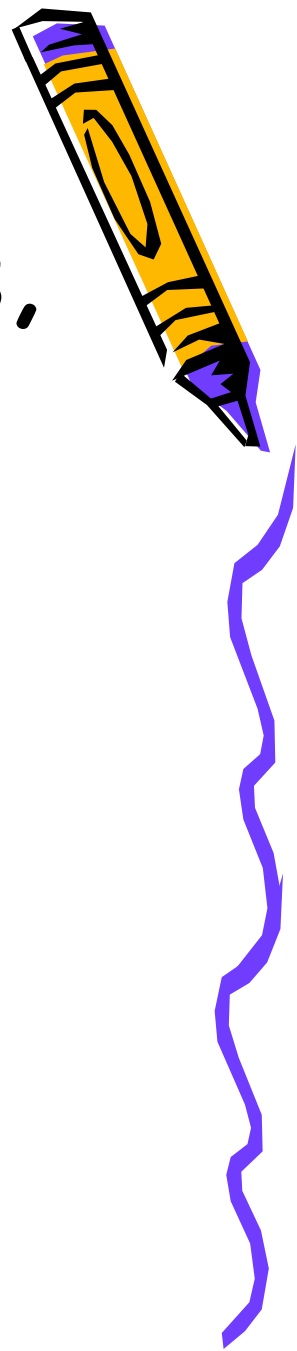
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NUMBER SENSE

Questions & Answers



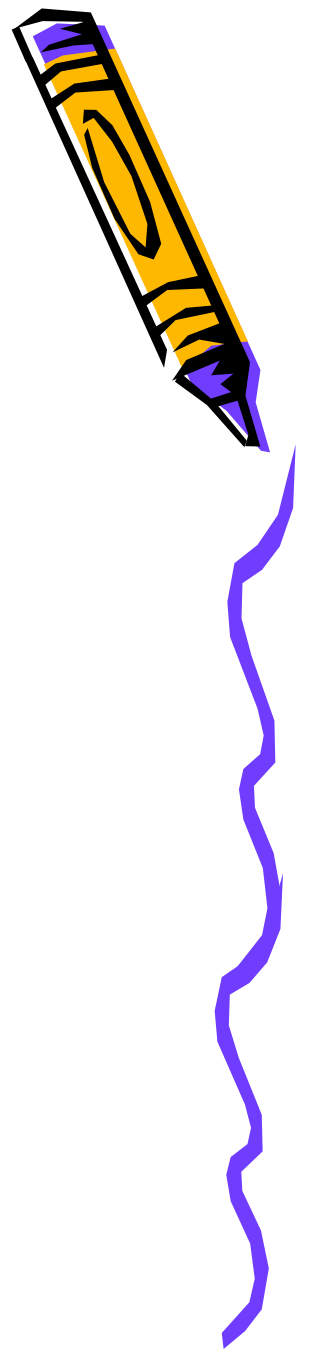
If you have some questions,
I have some answers.



Otherwise, it is
Time for the

UIL HS SAC 2022 test





What do you have if you.
have three 1's?

1 1 1

A running motorcycle





HAVE A
GREAT
DAY!

And remember, number sense is just

MIND OVER "MATH-ER"

