

NUMBER SENSE (updated 5/22/23)

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**Special Announcement --- The Number Sense Chronology is finished.
See 'Off On A Tangent' below.**

UIL Test Comments — 2022-23

*** NOTE: See **Off on a Tangent** below for information on workshops, Student Activity Conferences, and test discussions ***

SAC - - - > #37 ... key should read 7, not 8 (Release dates: 11/07/22)

A - - - > #68 ... see “Test Discussions” below (Release dates: 1/06/23 - 2/04/23)

B - - - > No errors, corrections, or comments reported at this time. (Release dates: 2/10/23 - 3/11/23)

District - - - > No errors, corrections, or comments reported at this time. (Release dates: 3/20/23 - 3/25/23)

Regional - - - > #35 ... it should say “positive integers” (Release dates: 4/21/23 - 4/22/23)

State - - - > #43 ... invalid statement ... needed a 3rd root (Release date: 5/17/23 - 5/18/23)

TMSCA Test Comments — 2022-23 (tests I write for TMSCA)

6 - - - > No errors, corrections, or comments reported at this time. (Release date: 12/10/23)

13 - - - > No errors, corrections, or comments reported at this time. (Release date: 3/04/23)

State - - - > No errors, corrections, or comments reported at this time. (Release date: 3/18/23)

District Warm-Up - - - > No errors, corrections, or comments reported at this time.
(Release date: to be determined by TMSCA)

Off On A Tangent

Workshops and/or Presentations I will be doing:

1. UIL Capitol Conference, Austin - June 20-21, 2023 -
*** Note: 2023 sessions TBA at a later time***
2. Workshops, presentations, virtual coaching clinics --- TBA at a later time.
3. Student Activity Conferences: Fall 2022
September 10: Tyler Junior College, Tyler
October 1: Texas Tech University, Lubbock
October 29: University of Texas at Austin
November 5: University of Texas Rio Grande Valley, Edinburg
*** Note: 2022 sessions TBA at a later time***

History of Number Sense Project:

The 278-page **Number Sense Chronology** is finished. It has taken a while. It was a lot of work, but well worth it and I enjoyed every minute of it. I hope you will find it as interesting as I did while doing it. There will be a link on my number sense page 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 do for the UIL Archives and for anyone interested in one of the oldest UIL contests. My wife and I have set up an annual TILF scholarship ... Larry and Mona White Number Sense Scholarship ... to help a couple of competitors (one girl and one boy) each year. You can get the scholarship information from the TILF scholarship page. Since there is no charge for the chronology, and if you feel the need, the scholarship has been set up so that donations can be made to it. 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.

Keep checking this web page often. I have a couple more interesting things to talk about a little later on.

Resources Update

Texas Math Mundo, <https://www.youtube.com/channel/UCDHQCWfSMjNJS0aJx8jITw>. If you haven't listened to some of these videos you need to. Saul Cantu is doing some neat things to make UIL STEM competitions more transparent. Thanks Saul for all of your efforts and hard work.

I recently received an update on "the little red book" -- Mental Mathematics for Number Sense by Frances Walzel -- is no longer available. Unfortunately, the Lord has called Frances back home to rest in His tender loving hands.

Test Discussions

I have been writing 12 number sense practice and competition tests for HEXCO since 2012 and will be writing them again this year. Contact Linda at HEXCO.com if you are interested in ordering some of these tests.

The district, regional, and state tests will be created based on the problems from these 6 tests: 2022SAC, TMSCA 6 (C), UIL A, UIL B, TMSCA 13 (D), TMSCA STATE (E).

UIL-A #68 ... I was informed that there could be an error on this problem. The problem is that there is a typo. The letter "y" is missing. It should have been $(2x-1y)^4$.

However, the middle term of a binomial to the 4th power is always $p*x^2*y^2$, where $p = 6$, $q = 2$, and $r = 2$. Hence, the second term of $(2x - 1)^4$ is still in the form $p*x^2*y^2$ which would make the coefficient $6*2^2*1^2 = 24$. So, $p(x^q)(y^r)$ would be $24 x^2 y^2$, giving $p + q + r = 24 + 2 + 2 = 28$.

Don't get me wrong, I literally did not catch the missing "y". Fortunately, in this case, because of the "1" the answer turns out the same as it would be if it had been "1y". If the binomial had been $(2x - 3)^4$, there would have been a real problem.

The grading option would have been to toss the problem because the actual letter "y" was not there or to count the 28 as correct because of what I stated above. It was not my intention for this to have happened.

STATE MEET PROOFERS AND GRADERS

Coaches of the regional team champions and the coaches of the regional wild card teams will be needed to proof the state test (while the contestants are testing) and grade the tests.

Note: You must be a full time employee of the school district unless special consideration is granted.
You must be listed as the team's coach.

You must be willing to stay in the proofing/grading room until **all** proofing **and** grading is complete.
(Please do not agree to proof and grade if you are not going to be in the room at the designated time.)

If you are one of the 24 regional team championship coaches or one of the 6 regional wild card team coaches, you need to email me no later than May 12 with the following information:

Number Sense Contest Regional Team Champion _____ Wild Card Team _____

Name _____ School & District _____

Classification _____ Region # _____ District # _____

I will _____ will not _____ be able to help proof and grade the test.

I will send you a reply confirming that I received your email. If you do not receive an email back from me then I did not receive your email. Hence, I will begin a search for a replacement for you beginning May 15. Email me at **texasmath@centex.net**.

Good Luck! Work Hard! Play Fair!

I am off on another tangent ...