

MATHEMATICS (updated 5/1/17)

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UIL Test Comments — 2016-17

*** NOTE: See Off on a Tangent for information on workshops and the Student Activity Conferences ***

*** NOTE: See "Off on a Tangent: Test Discussion" below about district, regional, and state tests ***

SAC --- > #13 ... typo on the key ... should be E. (Release dates: 9/17/16, 9/24/16, 10/22/16, & 11/5/16)

A --- > # 3 ... error on the key ... should be A

5 ... two correct answers are available ... both B & E work

#17 ... no correct answer available ... should be 215

#29 ... remove the word "for"

#49 ... typo on the key ... should be E

#58 ... probably should have stated to "use the digits only once in a number"

(Release dates: 1/6/17 - 2/4/17)

B --- > # 1 ... all of the answer choices should have been positive ... remove the negative signs

4 ... change the first three answer choices to their reciprocals

#48 ... typo on the key -- should be D not C (Release dates: 2/10/17 - 3/11/17)

District --- > Note: See **Test Discussions** below.

(Release dates: 3/20/17 - 3/25/17)

4 ... The answer choices should be:

(A) 9/32 (B) 15/16 (C) 18/25 (D) 12/19 (E) 8/25

#12 ... typo on the test ... choice (C) should be 49 not 47

#18 ... Not a valid problem ... needs to be tossed

#34 ... typo on the key ... should be E not A

#42 ... problem needed restating for clarification purposes ...

"Given the areas of the two rectangles shown find the perimeter of the hexagon."

Regional --- > (Release dates: 4/7/17 - 4/8/17)

#10 ... needed to add "**with right angle CDE**"... correction sent to regions prior to testing

#45 ... area of regions was ambiguous ... thrown out at regional

#60 ... needed to add "**What is its area?**"... correction sent to regions prior to testing

State --- > (Release date: 4/22/17)

7 ... need to add " where $a > 0$ and $GCF(a,b,c) = 1$... corrected prior to state testing

#20 ... missing theta symbol in answer choice E ... corrected prior to state testing

#36 ... should have been 1 yard not 3 yards in the problem ... thrown out at state

#47 ... typo on the key ... should be D not C ... correct prior to grading

#48 ... wrong units in the answer choices ... should have been cm^2 ... thrown out at state

#50 ... remove the magnitude symbols around $V_1 + V_2$... corrected prior to state testing

TMSCA Test Comments — 2016-17 (tests I write for TMSCA)

6 --- > #15 ... should have said "row 12" not "11th row ...

(Release date: 12/3/16)

- # 13 - - - > # 8 ... Parentheses need around the entire divisor (Release date: 3/4/17)
 #34 ... Note: See **Test Discussions** below.
 #42 ... The 6 numbers given for the sides of the cube do not appear to form a cube. The 6 numbers should have been 1, 2, 3, 3, 5, & 8. I thought I had corrected this for TMSCA, but I guess I didn't.
 #46 ... Note: See **Test Discussions** below.
 #53 ... If you do the expected computation to find $y = a + bi$ and add $a + b$ you get the answer on the key. However, when you square y or cube y you do not get $y^2 = 2 - i$ nor do you get $y^3 = 3 + i$.

State - - - > No errors, corrections, or comments reported at this time. (Release date: 3/18/17)

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 26-27, 2017.
2. *What's Your 8th Problem* - Math Camp at Texas Tech University, Lubbock on July 11-15, 2017.
 For more information contact Jack Barton at jack.barton@ttu.edu or 806-742-2350.
3. Student Activity Conferences:
 - A. Sept. 9, 2017 - Tyler
 - B. Sept. 23, 2017 - Lubbock
 - C. Sept. 30, 2017 - University of Houston (new location)
 - D. Fall, 2017 - Austin - TBA

2017 Student Activity Conference (SAC) information: (Time Schedule is tentative)

- 9:00-10:30 a.m. ---- Number Sense contest: guidelines, rules, resources, practice materials, etc.
 ---- SAC 2017 Number Sense Test (take/grade) NEW 10 min-80 question test
 ---- Q&A - discuss/answer questions from the test
- 10:45-noon ---- Mathematics contest: guidelines, rules, resources, practice materials, etc.
 ---- SAC 2017 Mathematics Test (take/grade) New 20 min-30 question test
 ---- Q&A - discuss/answer questions from the test
- 12:15-1:30 p.m. ---- UIL Constitution and Contest Rules: discussion and clarifications
 ---- Special session: TBA.

NOTE: For those of you not able to attend one of the SACs, all presentations, tests, keys, etc. should be posted on the UIL Academic website following the Austin SAC.

THE INFORMATION FROM THE 2016 SACs IS AND AVAILABLE AT
<http://www.uiltexas.org/academics/student-activities/arlington-2016>

Test Discussions

NOTE: The district, regional, and state tests will be created based on the problems from these 6 practice tests: SAC, TMSCA 6, UIL A, UIL B, TMSCA 13, & TMSCA STATE.

TMSCA 13: I was just recently informed that TMSCA made some changes to #34 and #46.
 #34 ... the answer choices were changed (with A being correct) to

- (A) 40 min (B) 23 min (C) 15 min (D) 45 min (E) 36 min.
#46 ... the answer choices were changed (with E being correct) to
(A) 12 (B) 16 (C) 18 (D) 24 (E) 26

District: Issues with # 4 and #42 were discovered and reported to UIL prior to the district week. UIL sent the corrections to the district directors prior to the district contest week. A typo on #34 was reported on Tuesday of the district week and UIL sent a correction to the district directors. On #18, answer A works out mathematically, however, it is not in the domain of the problem, hence the problem is invalid and has to be tossed.

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.

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 April 17 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 April 17. Email me at [**texasmath@centex.net**](mailto:texasmath@centex.net).

Good Luck! Work Hard! Play Fair!

I am off on another tangent ...