



TEXAS TECH UNIVERSITY  
Campus Access & Engagement

University Interscholastic League™

STUDENTS & TEACHERS—JOIN US

# “WHAT’S YOUR 13TH PROBLEM?”

**MATH, NUMBER SENSE,  
CALCULATOR, SCIENCE  
SUMMER CAMP—JULY 8-12**

Study UIL mathematics, number sense, science, and calculator applications with award winning coaches and teachers



REGISTER ONLINE BY SCANNING  
THE QR CODE

Pay your camp deposit and payments at

[bit.ly/ttu-uil-payment](https://bit.ly/ttu-uil-payment)

# SUMMER MATH, NUMBER SENSE, CALCULATOR & SCIENCE CAMP

JULY 8-12

## What's Your 13th Problem?

Student and Teacher Application (Due: July 1, 2024)

PLEASE PRINT:

EMAIL ADDRESS: \_\_\_\_\_

NAME (FIRST): \_\_\_\_\_ (LAST): \_\_\_\_\_

GENDER: \_\_\_\_\_ MALE \_\_\_\_\_ FEMALE \_\_\_\_\_ OTHER

MAILING ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

SCHOOL: \_\_\_\_\_ CITY: \_\_\_\_\_

GRADE (FALL 24) \_\_\_\_\_ BIRTHDATE \_\_\_\_\_

HOME PHONE: \_\_\_\_\_

CELL PHONE: \_\_\_\_\_

PARENT HOME PHONE: \_\_\_\_\_

PARENT CELL PHONE: \_\_\_\_\_

T-SHIRT SIZE:

\_\_\_ ADULT S \_\_\_ ADULT M \_\_\_ ADULT L \_\_\_ ADULT XL

\_\_\_ ADULT 2XL \_\_\_ ADULT 3XL

\_\_\_ ADULT 4XL \_\_\_ ADULT 5XL

CHECK ONE: \_\_\_ RESIDENT \_\_\_ COMMUTER

ROOMMATE REQUEST (NOT GUARANTEED) \_\_\_\_\_

Make Check Payable to  
TTU UIL or Make Credit  
Card Deposit/Payment  
Online at  
[bit.ly/ttu-uil-payment](https://bit.ly/ttu-uil-payment)

Save your spot with a \$100 deposit

FOOD ALLERGIES:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DIETARY RESTRICTIONS:

- NONE  
 VEGAN  
 VEGETARIAN  
 GLUTEN FREE

ACCOMMODATIONS:

PAYMENT: [BIT.LY/TTU-UIL-PAYMENT](https://bit.ly/ttu-uil-payment)

\_\_\_ \$100 NON-REFUNDABLE DEPOSIT  
DUE JUNE 19. THE REMAINING  
BALANCE IS DUE ON OR BEFORE  
JULY 8, 2024.

\_\_\_ \$250 FULL REGISTRATION FOR  
STUDENTS NOT STAYING IN THE  
DORM.

\_\_\_ \$400 FULL REGISTRATION FOR  
STUDENTS STAYING IN THE DORM.

REFUND POLICY/BALANCE DUE DATES

A refund request must be made in writing before July 5. Request must include the recipient's full name, mailing address, phone, and cell numbers. No fees are refunded after July 5, 2024.

# SUMMER MATH, NUMBER SENSE, CALCULATOR & SCIENCE CAMP

JULY 8-12

## What's Your 13th Problem?

Check one box per session

Tuesday, July 8, 2024		
4:30 – 6:00 pm	Registration in dorm.	
7:00 – 8:00 pm	Counselors escort all campers to 1st meeting.	
8:00 – 10:00 pm	Counselors will meet with their campers	
10:00 – 10:30 pm	Students should be in dorm rooms.	
11:00 pm	Lights out in dorm rooms.	

Wednesday, July 9, 2024		
7:30 - 8:30 am	Breakfast in the dorm.	
8:45 – 9:40 am	Number Sense: beginning number sense #1	
	Calculator: how to crunch a test using rpn (reverse polish notation)	
	Math: coordinate geometry – perimeter, area, etc.	
	Science-Chemistry: (novice) stoichiometry	
9:45 – 10:40 am	Number Sense: conversion problems Memorization	
	Calculator: related rates	
	Math: work stated problems	
	Science-Biology: Hardy Weinberg equation	

Wednesday, July 9, 2024 (continued)




10:45 – 11:40 am	Number Sense: estimations – <b>bring a calculator</b>	
	Number Sense: (novice) multiplication shortcuts	
	Calculator: slopes, max/min problems	
	Math: introductory stats (mean, median, mode, quartiles, etc.)	
	Science-Physics: fluids	
	Science: Chemistry: (advanced) chemical kinetics	
11:45 – 1:00 pm	Lunch in the dorm	
1:10 – 2:00 pm	Number Sense: beginning number sense #2	
	Calculator: #40 law of sines/cosines	
	Math: circle problems (arcs, power of a point, more)	
	Science-Chemistry: (novice) gases	
2:10 – 3:00 pm	Number Sense: (advanced) bases-fractions/decimals/sq. roots	
	Calculator: #59 solids of a revolution and area under a curve	
	Math: motion stated problems	
	Science-Biology: The central dogma. Genes to proteins.	
3:10 – 4:00 pm	Number Sense: GCD, LCM, and number theory problems	
	Calculator: #49/50 harder 3D geometry problems	
	Math: complex numbers	
	Science-Physics: two dimensional	
	Science: Biology: photosynthesis and cellular respiration	







Wednesday, July 9, 2024 (continued)

4:10 – 4:45 pm	General assembly in room 281	
5:30 – 6:30 pm	Dinner in the dorm	
6:45 – 10:00 pm	Leisure time	
10:00 – 10:30 pm	Students report to dorm rooms	
11:00 pm	Lights out in dorm rooms	
11:45 – 1:00 pm	Lunch in the dorm	
1:10 – 2:00 pm	Number Sense: beginning number sense #2	
	Calculator: #40 law of sines/cosines	
	Math: circle problems (arcs, power of a point, more)	
	Science-Chemistry: (novice) gases	
2:10 – 3:00 pm	Number Sense: (advanced) bases-fractions/decimals/sq. roots	
	Calculator: #59 solids of a revolution and area under a curve	
	Math: motion stated problems	
	Science-Biology: The central dogma. Genes to proteins.	
3:10 – 4:00 pm	Number Sense: GCD, LCM, and number theory problems	
	Calculator: #49/50 harder 3D geometry problems	
	Math: complex numbers	
	Science-Physics: two dimensional	
	Science: Biology: photosynthesis and cellular respiration	


Thursday, July 10, 2024		
<b>7:30 -8:30 am</b>	Breakfast in the dorm	
<b>8:45 – 9:40 am</b>	Number Sense: sequences, fibs, Lucas, made-up	
	Number Sense: (novice) all things fractions	
	Calculator: the calculator test in a nutshell	
	Math: algebra problems on the math test	
	Science-Chemistry: (advanced) thermodynamics	
<b>9:45 – 10:40 am</b>	Number Sense: base x to base 10; and base 10 to base x	
	Number Sense: (advanced) polygonal numbers	
	Calculator: acceleration & trajectory problems	
	Math: mixture word problems	
	Science-Physics: Newton’s Laws, force, and work	
	Science: Chemistry: (novice) acids and bases	
<b>10:45 – 11:40 am</b>	Number Sense: base system conversion and base operations	
	Number Sense: (novice) first page multiplication tricks	
	Calculator: sig fig problems on the calculator test	
	Math: geometry problems	
	Science-Biology: Introduction to genetics	
<b>11:45 – 1:00 pm</b>	Lunch in the dorm	

Thursday, July 10, 2024 (continued)		
1:10 – 2:00 pm	Number Sense: beginning number sense #3	
	Calculator: #58 matrices and #62 overflow	
	Math: using roots with 2nd, 3rd, & 4th degree equations	
	Science-Chemistry: (novice) physical equilibria	
	Science-Physics: conservation of energy	
2:10 – 3:00 pm	Number Sense: # 41 – 60 on the sequence chart	
	Number Sense: (novice) estimation strategies	
	Calculator: Dr. Bourell’s questions from the archives	
	Math: precalculus problems from session #1	
	Science-Chemistry: (advanced) chemical equilibria	
3:10 – 4:00 pm	Number Sense: square roots/cube roots problems	
	Calculator: Dr. Bourell’s picks of interesting questions	
	Math: precalculus problems from session #2	
	Science-Physics: simple harmonic motion	
	Science: Biology: advanced genetics	
4:10 – 4:45 pm	Camp Meeting in room 281	
5:30 – 6:30 pm	Dinner in the dorm	
6:45 – 9:00 pm	Leisure pool or recreation center	
7:00 – 8:00 pm	Teacher Questions and Answers	
10:00 – 10:30 pm	Students in dorm rooms	
11:00 pm	Lights out in dorm rooms	

Friday, July 11, 2024		
7:30 – 8:30 am	Breakfast in the dorm	
8:45 – 9:40 am	Number Sense: multiplication of 3 digits and square roots	
	Calculator: #46 scaling questions	
	Math: calculus problems on test #1	
	Science-Biology: cells and cell membranes	
9:45 – 10:40 am	Number Sense: repeating decimals to fractions	
	Calculator: concentration / dilution	
	Math: calculus problems from test #2	
	Science-Physics: Ohm's Law, current and resistance	
10:45 – 11:40 am	Number Sense: direct and inverse variations	
	Calculator: plane geometry - #60, 64, 65	
	Math: normal distribution	
	Science-Physics: Coulomb's Law	
11:45 – 1:00 pm	Lunch in the dorm	
1:45 – 2:00 pm	<b>Number Sense Test</b>	
2:10 – 2:45 pm	<b>Calculator Test</b>	
2:50 – 3:40 pm	<b>Math Test</b>	
3:45 – 4:50 pm	<b>Science Test</b>	
5:15 – 6:30 pm	Dinner in the dorm	



Check one box per session

Friday, July 11, 2024 (continued)		
7:00 – 8:00 pm	Awards assembly in room 281	
8:15 – 10:45 pm	Leisure time	
10:35 – 11:00 pm	Students in dorm rooms	
11:30 pm	Lights out in the dorm rooms	
Saturday, July 12, 2024		
7:00 – 8:00 am	<p>Breakfast in the dorm – campers should have dorm rooms cleaned; clothes packed</p> <p><b>Check out by giving your room key to your counselor.</b> The counselors will be by the office. They will check you out unless you have a fine. For our adult campers, you must return your key to the office</p> <p><b>***ALL CAMPERS MUST BE CHECKED OUT NO LATER THAN 9:00 am</b></p>	