$$\int (x \pm a^2)$$



TEXAS TECH UNIVERSITY
Campus Access & Engagement
University Interscholastic League

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"WHAT'S YOUR 13TH PROBLEM?"

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

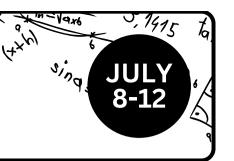
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SUMMER MATH, NUMBÉR SENSE, CALCULATOR & SCIENCE GAMP



What's Your 13th Problem?

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 – bring a calculator
	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
	Number Sense: beginning number sense #2
1.10 2.00	Calculator: #40 law of sines/cosines
1:10 - 2:00 pm	Math: circle problems (arcs, power of a point, more)
	Science-Chemistry: (novice) gases
	Number Sense: (advanced) bases- fractions/decimals/sq. roots
2:10 – 3:00 pm	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

Thursday, July 10, 2024	
7:30 -8:30 am	Breakfast in the dorm
8:45 – 9:40 am	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
9:45 – 10:40 am	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

	Check one box per se	ession
Thursday, July 10, 2024		
10:45 - 11:40 am	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	
11:45 – 1:00 pm	Lunch in the dorm	
	Number Sense: beginning number sense #3	
1:10 – 2:00 pm	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	

Thursday, July 10, 2024 (continued)	
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

	Check one box	per session
Friday, July 11, 2024		
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	Number Sense Test	
2:10 - 2:45 pm	Calculator Test	
2:50 – 3:40 pm	Math Test	
3:45 – 4:50 pm	Science Test	
5:15 – 6:30 pm	Dinner in the dorm	
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, Ju	ly 12, 2024	
7:00 – 8:00 am	Breakfast in the dorm – campers should have dorn cleaned; clothes packed Check out by giving your room key to your counse counselors will be by the office. They will check you you have a fine. For our adult campers, you must rekey to the office ***ALL CAMPERS MUST BE CHECKED OUT NO LAT 9:00 am	elor. The out unless eturn your