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

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## What's Your 13th Problem?

Tuesday, July 8, 2024

| $4: 30-6: 00 \mathrm{pm}$ | Registration in dorm. |  |
| :--- | :--- | :--- |
| $7: 00-8: 00 \mathrm{pm}$ | Counselors escort all campers to 1st meeting. |  |
| $8: 00-10: 00 \mathrm{pm}$ | Counselors will meet with their campers |  |
| $10: 00-10: 30 \mathrm{pm}$ | Students should be in dorm rooms. |  |
| $11: 00 \mathrm{pm}$ | 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 |  |
| 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) basesfractions/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) |  |  |
| :--- | :--- | :--- |
| $4: 10-4: 45 \mathrm{pm}$ | General assembly in room 281 |  |
| $5: 30-6: 30 \mathrm{pm}$ | Dinner in the dorm |  |
| $6: 45-10: 00 \mathrm{pm}$ | Leisure time |  |
| $10: 00-10: 30 \mathrm{pm}$ | Students report to dorm rooms |  |
| $11: 00 \mathrm{pm}$ | 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 |  |
|  |  |  |



| 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 |  |


| 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, July 12, 2024 |  |
| 7:00-8:00 am | Breakfast in the dorm - campers should have dorm rooms cleaned; clothes packed <br> Check out by giving your room key to your counselor. 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 <br> ***ALL CAMPERS MUST BE CHECKED OUT NO LATER THAN 9:00 am |

