EOP Summer Bridge 2024

Meet Mathematics

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Mathematics and Statistics Department
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**Math: Day One**

- Welcome and Introductions
- Announcements
- Advising for B4
  - Placement
  - Math for My Major
  - ALEKS PPL
- Math Activity
- Debrief/Wrap Up
MATH: DAY ONE
Advising for General Education

B4 Mathematics/Quantitative Reasoning

**B4 Placement**
- GE B4 Fulfilled
- GE B4 Ready
- GE B4 Ready with Support

**E-Advising Tools**
- Chico State Portal
- Student Center
- Degree Progress Report
- Smart Planner
- Transfer Credit Report
- Test Credit Report
GE B4 FULFILLED

Completed by:
- Exam: AP, IB, CLEP
- College course

Have you sent scores/transcripts?

What is your major?
What math is required?
Has that been fulfilled?
Do you still need ALEKS PPL?

Test/course credit may still be processing
Advising for General Education Area B4

GE B4 Ready
Ready to enroll GE B4

- What is your declared/updated major?
- What math is required?
- Are you eligible to enroll directly?
- Do you need to assess with ALEKS PPL?

FINA 101, MATH 101, 105, 107, 108, 110, 118, 119, 120

Section specific
Complete in Year One

ALEKS PPL
Advising for General Education Area B4

B4 Ready with Support

Ready to enroll in GE B4 with Support

- Support Lab
- Pre-enrollment
- Declared/updated major
- ALEKS PPL to Boost

Math/Quantitative Reasoning
Reason: GE B4 Ready with Support
Department: Mathematics & Statistics

MATH 101, 105+005L, 107+007L, 110+010L (SP), 116+016L
Advancing your General Education Area B4

**Steps 1 & 2: Getting Started**
1. Create account + knowledge check
2. Study + learn
   Class code for 24-25: CYVET-UP6W3

**You can still complete a proctored assessment**

**Step 3: Assessing**
Note: you do not have to assess however, only proctored results can be used for placement changes or enrollment needs

**ALEKS PPL**

- Calculus readiness
- Boost placement from GE B4 Ready with Support to GE B4 Ready
- Practice & prepare for first-year B4 & major-related courses
- Assessing is a three step process: initial-study-proctor
Advising for General Education Area B4

Math Website
- Office hours
- MLL Schedule
- Contact Info
- Advising Info
- Advising Appts
TOWER PUZZLE

Rules:
1. Only one disk may be moved at a time
2. Each move consists of taking the upper disk from one of the stacks and placing it on top of another stack or on an empty pole
3. No disk may be placed on top of a disk that is smaller than it

Goal: Move all "n" disks from the leftmost pole to the rightmost pole
**TOWER PUZZLE**

**Round One:** Solve the puzzle starting with **three** disks. Keep track of how many moves it takes to complete.

**Goal:** Move all "n" disks from the leftmost pole to the rightmost pole.
**TOWER PUZZLE**

**Round Two:** Solve the puzzle starting with four disks. Keep track of how many moves it takes to complete.

**Goal:** Move all "n" disks from the leftmost pole to the rightmost pole.
**Tower Puzzle**

Let's create a table for the optimal solution when $n=1, 2, 3, 4, 5$

Here optimal means the least number of moves

<table>
<thead>
<tr>
<th>$n$</th>
<th># of moves</th>
</tr>
</thead>
</table>

$y = mx + b$

$V = \frac{4}{3} \pi r^3$
TOWER PUZZLE

Discussion Questions

1. Can you predict the minimal number of moves required if you use all 6 disks?
2. Can you come up with a formula in terms of "n" for the minimal number of moves required to solve the puzzle with "n" disks?
3. How do you know your formula is correct?
TOWER PUZZLE

Assuming you can move one disc per second, how long will it take to solve the puzzle in the picture?

You may use the formula:

\[ f(n) = 2^n - 1 \]
Schedule Math: Part I

1. Grab a **Weekly Schedule** handout
2. Register for classes tomorrow at orientation
3. Use the Weekly Schedule on My Class Schedule to view and then **block off your in-person class times on the handout**
4. Bring the completed Weekly Schedule to class on Wednesday
Math: Day One Wrap Up

• Debrief

• Homework for Wednesday:
  Schedule Math Part I

• Prepare for Wednesday:
  ○ Comfortable shoes and clothing
  ○ Cellphone

• Next up.... Break from 10–10:10am, then back here (PAC 134) for POLS 155!
Math: Day Two

- Good Morning!
- Math Course Resources
- Math Activity
- Schedule Math Part II
- Debrief/Wrap Up
MATH Course Resources

**Homework**
- Canvas
- ALEKS, MyStatLab, StatCrunch, MyMathLab, Desmos, others

**Helpful Materials**
- Graph Paper
- Notebook- take notes!
- Calculator
- STEM- small whiteboard
MATH Course Resources

**Textbooks**
- E-books, rental, hardcopy
- Course packets
- Course access codes; access for first two weeks

**Tech Support**
- Pearson/McGraw Hill
- Pronto/Canvas/Discord
- ITSS: MLIB & Online
- Technology Equity & Inclusion
SCAVENGER HUNT

Rules:

1. No more than 3 people per group
2. Note: five different versions
3. Group has to stay together
4. Speed is not as important as accuracy
5. Be respectful when inside spaces
6. **Group photo**—Wildcat or Chico State sign; task one person to upload the photo; log in with Chico State credentials to access
1. Using the information you have on Side 1, solve for your current % and letter grade (Question 1 & 2)
2. If you want to confirm you are on the right track, ask a Math Leader before departing for clues

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**Scenario:** You are heading into the last few weeks of MATH 118. You think you are doing ok in the course but, you are unsure about your grade and what to do to prepare for your final exam. You really want to do well your first semester and pass all of your courses.

<table>
<thead>
<tr>
<th>Category</th>
<th>Current Points</th>
<th>Points Available</th>
<th>% of Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes</td>
<td>52</td>
<td>75</td>
<td>15%</td>
</tr>
<tr>
<td>Project</td>
<td>47</td>
<td>50</td>
<td>10%</td>
</tr>
<tr>
<td>Participation</td>
<td>65</td>
<td>75</td>
<td>15%</td>
</tr>
<tr>
<td>Midterm</td>
<td>67</td>
<td>100</td>
<td>20%</td>
</tr>
<tr>
<td>Homework</td>
<td>38</td>
<td>45</td>
<td>15%</td>
</tr>
<tr>
<td>Group Work</td>
<td>55</td>
<td>50</td>
<td>5%</td>
</tr>
<tr>
<td>Final</td>
<td></td>
<td>100</td>
<td>20%</td>
</tr>
</tbody>
</table>

1. What is your current grade (answer in %)?

2. What letter grade does that translate to?
SCAVENGER HUNT

1. Gather missing info from each location to fill in the Added Points column
2. Calculate your updated current points total in the New Total column
3. Return to PAC 134 to “take your final”
4. Meet back here by 9:40am
### Scavenger Hunt

**Goal:** Determine your final grade in the course

<table>
<thead>
<tr>
<th>Math Course</th>
<th>Points Earned on Final</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 101</td>
<td>135</td>
</tr>
<tr>
<td>MATH 105</td>
<td>115</td>
</tr>
<tr>
<td>MATH 107</td>
<td>80</td>
</tr>
<tr>
<td>MATH 110</td>
<td>215</td>
</tr>
<tr>
<td>MATH 116</td>
<td>150</td>
</tr>
</tbody>
</table>

Add your final exam score and calculate your overall percentage and letter grade.

Check your answer with a Math Leader for a sweet treat!
Schedule Math: Part II

1. Block off work shifts, involvement, volunteering, or other professional commitments.
2. Block off commute time, eating, working out, praying, or other personal commitments.
3. Schedule out time to study for each course: reading, homework, reviewing, preparing, assignments, projects.
4. After you have marked your firm commitments, then you can see what time you have left for other activities.

Study formula: For every unit/hour you spend in class, plan for 2-3 hours outside of class.

How much time do you have for you?
Math: Day Two Wrap Up

- Debrief
- Prepare for tomorrow
  - Ayres 106
  - Come prepared with questions about math
- Next up.... Break from 10-10:10am, then back here (PAC 134) for ENGL 130!
Math: Day Three

- Success in Math
- Math Faculty Panel
- Preparing for Fall 2024
- Debrief/Wrap Up
SUCCESS IN MATH

STRATEGIES & TIPS

- Read syllabus
- Do not miss class/lectures
- Come prepared
- Take careful notes
- How do I study?

- Form study groups
- Think, everyday... even Saturday
- Attend office hours
- Communication is key!
Success in Math

More Support

- Office Hours
- Math Learning Lab
- Embedded Tutors
- First Year Math Coordinator

Important

- Student Learning Center
- Support Spaces: CSC2, EOP, LSAMP, REACH
- College Success Centers
- Residence Halls
MEET MATH FACULTY

Get to know some of our faculty and ask questions to prepare for math!

Dr. Kathy Gray  Dr. Guillermo Alesandroni  Dr. Jane Guo
Math: Day Three Wrap Up

- Debrief
- Prepare for fall...
  - ALEKS PPL
  - Canvas
  - Spring 25 Plans
- Next up.... Break from 10-10:10am, then back here (AYRS 106) for ENGL 130!
CONTACT US:

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