Math 070A – Proportional Reasoning and Applications

IMPORTANT INFORMATION: On May 4th, all students enrolled in Math 70A will take a one hour comprehensive exam. Students who pass this exam will begin Math 72B on May 6th (same room/same time). Students who do not pass this exam will repeat the content from Math 70A starting May 6th.

Instructor: Jennifer Leber
Office: #17
Office hours: 1:30-2:30 or drop in anytime
Phone: 527-4245
Email: jennifer.leber@wwcc.edu
Enrollment Code in MLP:

Course Description: Math 070A is designed to introduce students to beginning problem solving methods. The course emphasizes proportional reasoning and the use of appropriate formulae to model and solve problems.

Prerequisites: MATH 070A has a prerequisite of MATH 040, MATH 49, or appropriate score on the placement exam.

Required Text: You must purchase a MyLabsPlus code for the required text “Developmental Mathematics.” The code may be purchased at the bookstore or online. You will be able to use the same code throughout the pre-college mathematics sequence.

Other Required Materials: You will need a scientific (NOT GRAPHING) calculator. You may not use your cell phone as your calculator. Please buy a 3 ring binder with four dividers.

Student Learning Outcomes: On the cumulative exam, students will be able to:

- solve a proportion for an unknown in any of the four spots.
- simplify ratios and rates and convert ratios and rates to unit ratios and use the results to compare values.
- set up and solve a proportion to find unknown values.
- convert from one unit of length, area, volume, mass, time, speed and weight to another.
- translate a given an English phrase or sentence into an equivalent mathematical expression or equation.
- between fractions/decimals/ percents.
- solve a standard percent equation for any of the three parts.
- solve basic percent applications, simple interest applications, sales tax applications, sale price applications.
- draw conclusions about information given in a pie chart using fractions and percents.
- compute the perimeter of the polygon.
• compute exact and approximate area, circumference, volume and surface area of common shapes.

Grading Policy:

To receive a C or higher in Math 070A, students MUST pass the comprehensive common exam written and graded by the math department. Otherwise, grades will be based on class points assigned on homework, in class work and quizzes.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
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<tbody>
<tr>
<td>A</td>
<td>At least 92% of class points and pass comprehensive exam.</td>
</tr>
<tr>
<td>A-</td>
<td>90-91.99% of class points and pass comprehensive exam.</td>
</tr>
<tr>
<td>B+</td>
<td>88-89.99% of class points and pass comprehensive exam.</td>
</tr>
<tr>
<td>B</td>
<td>82-87.99% of class points and pass comprehensive exam.</td>
</tr>
<tr>
<td>B-</td>
<td>80-81.99% of class points and pass comprehensive exam.</td>
</tr>
<tr>
<td>C+</td>
<td>78-79.99% of class points and pass comprehensive exam.</td>
</tr>
<tr>
<td>C</td>
<td>72-77.99% of class points and pass comprehensive exam.</td>
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<tr>
<td>C-</td>
<td>Fewer than 72% of class points and pass comprehensive exam.</td>
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<tr>
<td>D</td>
<td>At least 60% of class points and fail comprehensive exam.</td>
</tr>
<tr>
<td>F</td>
<td>Fewer than 60% of class points and fail comprehensive exam.</td>
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Homework: Most homework will be assigned and completed online through MyLabsPlus and times of completion are listed for each assignment.

NOTE TO STUDENTS ABOUT HOMEWORK: Take homework seriously. It is one of the main vehicles for learning in this math class. It is your chance to practice. If you get help on a homework problem, you should hit “similar exercise” and make sure you can complete another problem without any assistance. There is no set amount of time that homework should take. For some students it will take as little as an hour per night, but for many students it will take much longer. You should continue to work on problems until you have mastered the material.

Attendance: Students are expected to attend every scheduled class. It is the student's responsibility to keep informed of any announcements, syllabus adjustments, or policy changes. Students who miss the first week of classes will be dropped. Points may be deducted for arriving late or leaving early.

Behavior: The most important rule for this class is RESPECT THE RIGHTS OF YOUR FELLOW STUDENTS. Therefore, no disruptive behavior will be permitted during class time; this includes but is not limited to coming to class late, leaving early, use of cell phones or other communication devices (such as the ringing of phones or alarms) and listening to music. All cell phones, IPODs, and other communication
devices must be turned off and remain out of sight. **NO TEXTING DURING CLASS.**

**Policy on Due Dates and Make-Up Work:** Late work will be accepted for half of the points. If paper and pencil homework is assigned, it is due by the start of class and can be delivered either in person, by email, or by having a classmate bring it to class. Because everyone takes the common comprehensive exam on the same day and the results of this exam affect class placement for the next day, students must take the exam on **May 4th**. 50% of the homework must be completed in order to take the final exam.

**Withdraw/Drop Information:** In the winter quarter, the last day to drop a course is **May 15th**.

**Academic Integrity:** The mathematics department does not tolerate cheating. Students who have questions or concerns about academic integrity should talk to their instructor.

**Accommodations for Students with Disabilities:** A student with a documented disability may request accommodations by contacting Claudia Angus, Coordinator of Disability Support Services, by phone at 527-4262 or by email at claudia.angus@wwcc.edu.

**Creating Conditions for Successful Learning:** Research shows success in math class depends very much on two factors: the amount of time spent working on the material and the student's beliefs about mathematics and what it means to understand and do mathematics. With this in mind, here are some suggestions:

- Be in class, every class, and be on time.
- Be prepared to participate in group work and discussions every day so that class time is not wasted, and
- Spend at least 2 hours every day, not including class time, rereading course notes, reading the book, watching at the online videos, working on homework assignments, **and studying**.
- Realize that mathematics is not just a set of procedures; mathematical concepts involve a lot of thinking and reasoning. Consequently, being able to execute procedures accurately is only one part of doing well in this class.
- Realize that success in mathematics is less about "ability" and more about willingness to think and to work hard to make sense of things.
Tutoring and Learning Center (TLC): The WWCC TLC is located in Room 244 of the main building on the Walla Walla campus. All services in the TLC are free to WWCC students. No appointments are taken for tutoring services. You should just walk in, sit down, get to work, and ask anyone wearing a green vest for help if you get stuck.

Classroom Norms: As we will spend a lot of time working in partnerships, in groups, and in class discussions, here are some rules to help you navigate what may be an unfamiliar experience in a math class.

- Never call out an answer until the person leading the classroom has given permission. Raise your hand.
- This is a safe environment. That means that you should feel free to ask a question or offer an opinion or an answer, and no one will make fun of you for what you say.
- If you are working with classmates, work with them. Do not wait and hope that others will do your work for you, and do not move on to other assignments while your classmates are struggling to understand the current one.
- Be considerate of others. In addition to the ways to be considerate listed above, do not dominate group or class discussions. Remember that everyone needs an opportunity to share his/her ideas.
- Do not expect your instructor to validate your answers or those of anyone else. You are responsible for making sense of answers and solution methods, and you should always look for ways to verify your work.
- **Cell phones should be off and put away. If this becomes a problem I will ask you to leave and earn a 0 for the day.**

These rules are meant to benefit the entire class, and to ensure that everyone has the opportunity to contribute and to learn.