CSCI-UA.694-001: Mathematics Practice Exam (Jun 27, 2025) Total: 100 points

Important Notes- READ BEFORE SOLVING THE EXAM

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- 1. If a rectangle has a length of 12 centimeters and a width of 5 centimeters, what is its perimeter? Explain the formula you used to calculate the perimeter and show your work. [20 points]
- 2. A baker uses 2 cups of flour for every 3 dozen cookies. If the baker wants to make 9 dozen cookies, how many cups of flour will they need? Solve this problem using proportions and show your work. [25 points]
- 3. Sarah has 20 apples and wants to divide them equally among 4 friends. How many apples will each friend receive? Then, if one friend gives away 2 of their apples, how many apples does that friend have left? [25 points]
- 4. What is the area of a square with sides that are 7 inches long? Explain the formula you used to calculate the area and show your work. [30 points]