

CS-423: Mathematics

Practice Exam

Generated on June 27, 2025

Difficulty: Easy

Important Notes:

- Answer all questions to the best of your ability
 - Show all work for partial credit
 - Use additional paper if needed
 - Time limit: 90 minutes
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1. If a rectangle has a length of 8 centimeters and a width of 5 centimeters, what is its area, and what is its perimeter? Show your work for calculating both the area and the perimeter. [20 points]

2. A baker uses 2 cups of flour for every 1 cup of sugar in her cake recipe. If she wants to make a larger cake and uses 6 cups of sugar, how many cups of flour will she need? Explain your reasoning. [30 points]

3. John has 15 apples. He gives $\frac{1}{3}$ of his apples to his sister and then eats 2 apples. How many apples does John have left? Clearly show each step of your calculation. [50 points]