

RELATIONSHIP CONCEPTS

SSC CGL Reasoning - Complete Chapter Guide

Family Relations | Blood Relations | Coded Relations | SSC CGL Exam Focus

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📖 Chapter Overview: This chapter covers relationship concepts including family relations, blood relations, coded relations, and relationship puzzles essential for SSC CGL reasoning section.

1. INTRODUCTION TO RELATIONSHIP CONCEPTS

What are Relationship Concepts?

💡 Definition: Relationship concepts involve understanding and analyzing various types of relationships between people, particularly family relationships, and solving puzzles based on these relationships.

🔑 Key Insight: Relationship questions test your logical reasoning ability to decode family trees, understand blood relations, and solve coded relationship problems.

Types of Relationship Problems

🌳 Family Tree Problems

- Analyzing family hierarchies
- Determining relationships
- Multiple generation problems
- Complex family structures
- Visual representation

💧 Blood Relations

- Direct blood relationships
- Maternal and paternal sides
- In-law relationships
- Generation gaps
- Mixed relationship puzzles

</> Coded Relations

- Symbol-based relationships
- Mathematical operations
- Statement-based problems
- Multiple condition problems
- Logical deduction



2. BASIC RELATIONSHIPS & TERMINOLOGY

Common Family Relationships



Father

Male parent



Mother

Female parent



Son

Male child



Daughter

Female child



Brother

Male sibling



Sister

Female sibling

Extended Family Relationships



Grandfather

Father of your father or mother



Grandmother

Mother of your father or mother



Uncle

Brother of your father or mother



Aunt

Sister of your father or mother



Cousin

Child of your uncle or aunt



Nephew

Son of your brother or sister



Niece

Daughter of your brother or sister

</> 3. CODED RELATIONSHIPS

Understanding Coded Relations

Common Coding Systems

$A + B = A \text{ is brother of } B$

$A - B = A \text{ is sister of } B$

$A \times B = A \text{ is father of } B$

$A \div B = A \text{ is mother of } B$

$A \$ B = A \text{ is husband of } B$

$A \# B = A \text{ is wife of } B$

💡 Example: Coded Relationship Problem

Problem: If $A \times B \div C$, then how is A related to C?

- 1 **Step 1:** $A \times B$ means A is father of B
- 2 **Step 2:** $B \div C$ means B is mother of C
- 3 **Step 3:** Therefore, A is grandfather of C

Answer: Grandfather

Solving Strategy for Coded Relations

☰ Step-by-Step Approach:

- 1 **Understand Symbols-** Memorize the coding system
- 2 **Break Down Expression-** Analyze each part separately

- 3 **Determine Intermediate Relations**- Find relationships step by step
- 4 **Combine Relations**- Connect all relationships
- 5 **Verify Answer**- Check if the final relationship makes sense

☰ 4. PRACTICE QUESTIONS

Basic Relationship Questions

Q1. Pointing to a woman, a man said, "Her mother is the only daughter of my mother." How is the man related to the woman?

- ☐ A) Father
- ☐ B) Brother
- ☐ C) Uncle
- ☐ D) Maternal Uncle

[Check Answer](#)

Coded Relationship Questions

Q2. If $A + B$ means A is brother of B, $A - B$ means A is sister of B, $A \times B$ means A is father of B, then what does $P \times Q - R$ mean?

- ☐ A) P is father of R
- ☐ B) P is uncle of R
- ☐ C) P is grandfather of R
- ☐ D) P is brother of R

[Check Answer](#)

5. SSC CGL EXAM STRATEGY

Approaching Relationship Questions

Exam Strategy for Relationship Concepts:

1. **Read Carefully** - Understand the relationship statement (15 seconds)
2. **Identify Key People** - Note all persons mentioned (10 seconds)
3. **Draw Diagram** - Create quick family tree or relationship chart (20 seconds)
4. **Apply Logic** - Use relationship rules systematically (15 seconds)
5. **Check Options** - Verify with given choices (10 seconds)
6. **Confirm Answer** - Ensure no contradiction (10 seconds)

Common SSC CGL Relationship Patterns:

- Pointing and statement problems
- Coded relationship expressions
- Family tree analysis
- Blood relation puzzles
- Mixed generation problems
- Gender determination questions
- Multiple condition relationships

Quick Solving Techniques

Speed Solving Tips:

- Use gender clues to eliminate options
- Remember common relationship patterns
- Practice quick diagram drawing
- Learn standard coding systems
- Use elimination method for multiple choices
- Focus on key relationship words ("only", "that", "of")
- Practice with different family structures



6. ADVANCED CONCEPTS & PRACTICE

Complex Relationship Problems

Example: Multiple Generation Problem

Problem: A is B's brother. C is D's father. E is B's mother. A and C are brothers. How is E related to D?

- 1 A and C are brothers
- 2 E is mother of A (since E is B's mother and A is B's brother)
- 3 Therefore, E is also mother of C (since A and C are brothers)
- 4 C is father of D
- 5 Therefore, E is grandmother of D

Answer: Grandmother

Daily Practice Routine

4-Week Preparation Plan:

Week 1: Basic Family Relations (15 questions/day)

Week 2: Blood Relations & Family Trees (20 questions/day)

Week 3: Coded Relationships (20 questions/day)

Week 4: Mixed Problems & Speed Practice (25 questions/day)

Effective Relationship Concept Practice:

- Start with simple direct relationships
- Practice drawing quick family trees
- Learn common relationship patterns
- Work on speed without sacrificing accuracy
- Create your own relationship puzzles

- Review mistakes to understand error patterns
- Practice with different coding systems

Relationship Concepts - SSC CGL Reasoning Preparation

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