

SUMMARY

NCERT Class 6 Maths Chapter 8: Playing with Constructions

Overview

This summary of **NCERT Class 6 Maths Chapter 8: Playing with Constructions** introduces geometric constructions using tools like rulers and compasses. Designed for students, teachers, and parents, it covers drawing figures such as rectangles, squares, and artistic designs, making it ideal for exam preparation and enhancing spatial skills. Visit GovtJobsNet.com for more educational resources.

Key Concepts

- **Artwork with Constructions**
 - Freehand drawing of figures like faces or eyes can be improved with tools.
 - Example: Draw a person's outline using a ruler and compass.
- **Constructing Rectangles**
 - A rectangle has opposite sides equal and angles of 90° .
 - Method: Use a ruler for sides and a compass for right angles.
 - Example: Construct a 5 cm \times 3 cm rectangle with given points.
- **Constructing Squares**
 - A square has all sides equal and angles of 90° .
 - Method: Use a compass to ensure equal sides and right angles.
 - Example: Construct a square with side 4 cm.
- **Advanced Constructions**
 - Construct figures like a square with a hole or a larger house using multiple steps.
 - Example: Draw a square and remove a smaller square inside it.
- **Properties and Techniques**
 - Rotation or scaling maintains shape properties (e.g., angles remain 90°).
 - Compass helps transfer lengths accurately.
 - Example: Use compass to mark points equidistant from given points.

Practice Questions

- Draw a freehand figure of a tree and then construct it with a ruler.
- Construct a rectangle with length 6 cm and width 4 cm using a compass.
- Draw a square with side 5 cm and verify all angles are 90° .
- Construct a square with a 2 cm \times 2 cm hole inside a 6 cm \times 6 cm square.
- Use a compass to find a point 3 cm from two given points A and B.

Why This Chapter Matters

Mastering geometric constructions improves precision, spatial reasoning, and problem-solving skills, applicable in design, architecture, and engineering. It enhances understanding of shapes and their properties. For more study materials and exam tips, explore GovtJobsNet.com.

Source: NCERT Class 6 Maths Chapter 8