

Session 33: Prime Numbers

Session Title	The Prime Club
Objective	By the end of this session, students will be able to: <ol style="list-style-type: none">1. Understand the concept of prime numbers2. Identify prime numbers within a given range3. Develop problem-solving and critical thinking skills
Concept	Prime Number: Numbers that have exactly two factors (1 and itself)
Material Required	<ol style="list-style-type: none">1. Board2. Chalk3. Chart with diagram4. Cut 7 pieces of paper into small circles, write a prime number on each circle. (5, 7, 11, 13, 17, 19, 23)
Methodology	Activity-based learning
Session Duration	90 Minutes

Introduction Activity (15 minutes):

Prime Detective

1. Write numbers from 1 to 20 on the board.
2. Ask students to work in pairs and investigate which numbers can be divided by only 1 and themselves.
3. Encourage discussion: What do you notice about these numbers?

Main Activity (65 minutes):

Define prime numbers (10 minutes)

Numbers that have exactly two factors (1 and itself).

Give examples: 2, 3, 5, 7, 11, etc.

Two (2)

- It is the smallest prime number
- It is the only even prime number

Task (20 minutes)

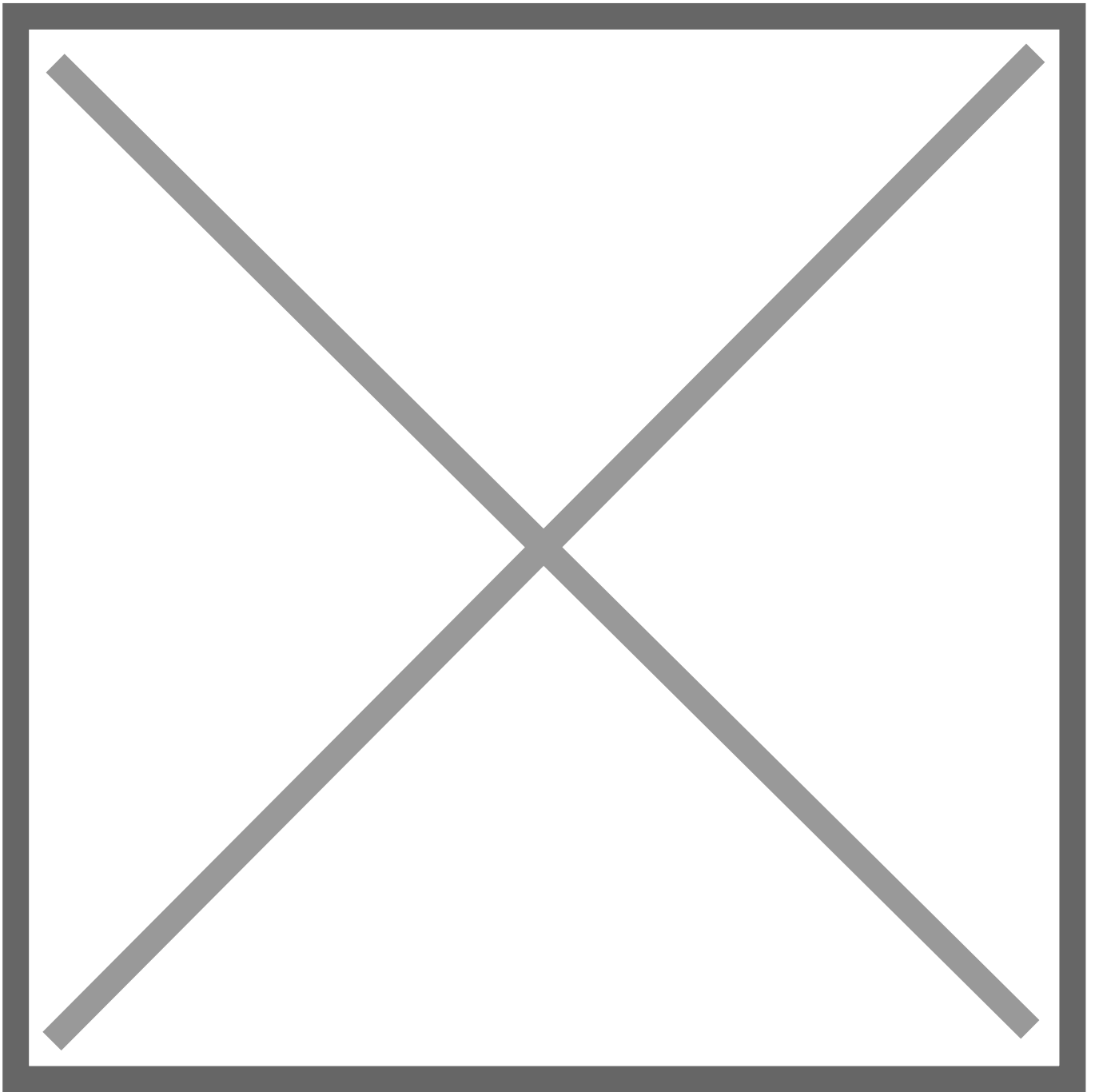
1. Write all the prime number between 20 and 50

Prime Number Puzzle (35 minutes)

Make students into small groups.

Goal

Arrange the given prime numbers (5, 7, 11, 13, 17, 19, 23) in the seven circles so that the sum of numbers in each row and diagonal is the same prime number.



How to Play:

1. Place each number in a circle.
2. Ensure that numbers in each straight line (rows & diagonals) add up to the same prime number.
3. Adjust the numbers if needed until all sums are equal.

Example:

1. One possible sum target: 41 (a prime number).
2. Arrange the numbers so that all lines add up to 41.

Review Questions (5 minutes):

1. How can you tell if a number is prime?
2. What strategy do you use to test if a number is prime?

Follow up Tasks (5 minutes):

Home Work

1. Write all the prime number between 50.

Expected Learning Outcome:

Knowledge building:

- Understand the concept of prime numbers
- Able to find prime number within a given range

Skill Building:

- Critical thinking and logical thinking
- Team work
- Confidence building

Resources:

Prime numbers

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