Session 18: Addition and subtraction of fractions

Session Title	Addition and subtraction of fract
Objective	1. Students will understand and solve ad and subtraction problems with like an unlike denominators. 2. Students will represent and simplify fr operations visually and numerically. 3. Students will explore and identify equ fractions using fraction strips.
Concept	1. To understand how to add and subtra and unlike denominators.
Materials Required	1. Blackboard 2. Fraction manipulatives (circles, bars, strips) 3. Paper plates (for fraction pizza activity 4. Colored pencils or markers 5. Pre-cut fraction cards (e.g., ½, ⅓, ¼, etc.)
Methodology	1. Start with basic concepts of fractions 2. Provide clear step by step explanatior examples through activity.
Session Duration	90 Minutes

Introduction Activity (40 minutes):

Create Fraction Strips: (15 minutes)

1. Give each student (or group) colored strips of paper.

Have them fold and cut the strips to show different fractions:

1. 1 strip = whole
2. Fold in 2 = halves
3. Fold in 3 = thirds
4. Fold in 4, 6, 8 = corresponding fractions

Label the Strips:

1. Students write the fraction name on each part of the strip (e.g., “1/2”, “1/4”)

Explore Equivalents: (15 minutes)

1. Students lay out their strips and compare lengths.
2. They find and stack strips that are the same total length. For example:
3. Place to 1/4 strips over one 1/2 strip to see they are equal.
4. Match three 1/6 strips to one 1/2 strip.

Worksheet Time: (10 minutes)

AD_4nXdPDI9Kgr79sYDWVx8nxI8xtFakazzzJ4U18qXJ2OkNjwvlLkUO3k4DqqsNMQztjDOeRkz8BUst1S1

AD_4nXetgz0HIXEohhrTN7IXHiIlRAHGH0kwrga-fXwvWxz5yZKUtsWimY6F1LvzJ615Mi9eeSVUS9FV5w

Main Activity (35 minutes)

Discussion (10 minutes)

Ask: “Can we add 1/2 and 1/3 as they are?” (No)

Show visually with fraction strips that they are different-sized parts.

Explain: “To add or subtract fractions, we need to make the pieces the same size — we need a common denominator.”

Find the Least Common Denominator (6)

Convert: 1/2 = 3/6, 1/3 = 2/6 → 3/6 + 2/6 = 5/6

"Fraction Friends Challenge" (25 minutes)

1. Group students in pairs or small groups.
2. Each group gets two set of fraction cards

AD_4nXc8UTP4CqoD3UTRPjPCQkLDFpwL2oxiW6a7wPwZxGQ_XC0TOpXpWWjqxkKPghwyAh79DGiLg

AD_4nXc2kpW6No2-LXjHtA42EZHqBG-MrVBDuwK45ZExOTXTDtfJ-5-iv5geQSyaVxdzOFf6hfVD-MaQD

Challenge

1. Pick two cards, find a common denominator, and solve.
2. Each person solves it on their own first.
3. Then compare answers and explain how they got it.
4. Use fraction strips to physically represent their answer and confirm visually

Review Questions (5 minutes):

1. 1/2 + 2/4 = ?
2. 3/6 -2/6 = ?

Follow-up Tasks (10 minutes):

1. ½ + 3/3 = ?
2. 4/8 + 6/4 = ?
3. 5/10 + 3/2 = ?

Expected Learning Outcome

Knowledge building:

- To understand how to add and subtract like fractions
- Expert in the conversion of unlike fractions to like

- To understand how to add and subtract unlike fractions.

Skill Building:

- Collaborate with a peer
- Respectful communication and empathy
- Logical thinking
- Problem solving

Resources

Addition and subtraction of fractions

Exercise 1

Exercise 2

Exercise 3

Exercise 4

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