Session 10: Multiplication word problems

Session Title	Multiplication word problems
Objective	1. Students will be introduced to multiplication word problen practice applying multiplication concepts to real-world sce 2. Students will also work on addition and subtraction word p
Concept	Word problem of multiplication, addition and subtraction
Materials Required	1. Whiteboard and markers 2. Paper and pencils 3. Word problem handouts (including multiplication, additior subtraction problems) 4. Manipulatives (counters, blocks, etc.)
Methodology	Activity-based learning
Session Duration	90 Minutes

Introduction Activity (25 minutes):

Greeting and Warm-Up (10 minutes)

Begin with a welcoming activity. For example, a quick mindfulness moment: "Take three deep breaths and think about something you are excited to learn today." This will help students focus and create a positive learning environment.

Direct Instruction (15 minutes)

Introduction to Multiplication Word Problems

Explain how word problems can help us apply math in real-life situations. Show an example of a multiplication word problem:

“You have 3 baskets. Each basket has 4 apples. How many apples do you have in total?”

Walk through the steps of solving the problem:

1. Read the problem carefully.
2. Identify the numbers and the operation (multiplication).
3. Solve it: 3 baskets × 4 apples = 12 apples.
4. Check if the answer makes sense (Are 12 apples reasonable for 3 baskets?).

Main Activity (50 minutes):

Group Work (15 minutes):

Divide students into small groups. Provide each group with a set of word problems that include multiplication, addition, and subtraction. Students will work together to solve the problems. Use manipulatives (counters, blocks, etc.) to help visualize the problems.

Give each group the three problems given below:

- Multiplication: “You have 4 rows of chairs, with 5 chairs in each row. How many chairs are there?”
- Addition: “You have 12 marbles, and you win 7 more. How many marbles do you have?”
- Subtraction: “You have 20 stickers, and you give 8 to a friend. How many stickers do you have left?”

Class Discussion (10 minutes):

After each group has solved the problems, bring the class back together and ask each group to share one of their word problems and solutions. As students present, encourage the class to offer supportive feedback and ask questions.

Activity: “Math in the Real World” (25 minutes)

For this activity, create a “store” or “market” simulation where students will use word problems to "buy" and "sell" items. Each item will have a price and students will need to solve word problems to determine the cost or amount of money they’ll need to pay. Items should have a price related to simple multiplication, addition, or subtraction problems.

Example items:

- 3 packs of gum (Price: ₹15 per pack)
- 4 toys (Price: ₹5 per toy)
- 5 apples (Price: ₹12 per apple)

Multiplication Word Problems

1. A baker uses 3 cups of flour for each loaf of bread. How many cups of flour will he use to bake 8 loaves?
2. Jenny reads 9 books a month. How many books will she read in a year?
3. The product of 6 and 7 equals the number of oranges in a basket. How many oranges are in the basket?
4. The number of petals on a flower is 7 times 5. How many petals are there on the flower?
5. If you triple the number of 4 cats, how many cats will you have?

Ask students solve each word problem, they can "purchase" an item (they won't actually spend money, but they will keep track of their answers). Use manipulatives to help students visualize how much money they need or how much change they should receive.

Review Assessment (5 minutes):

Review the key points of the lesson: how to solve multiplication, addition, and subtraction word problems. Ask students to share one strategy that helped them solve a problem today.

Follow-up Tasks (10 minutes):

1. A book shelf has 5 shelves, and each shelf can hold 8 books. How many books can the bookshelf hold in total?

2. A toy car truck is 12 meter long. If we add 8 more meters to it, how long is the track now?
3. A bakery has 30 cupcakes on display. If 11cupcakes are sold, how many cupcakes are left?

Expected Learning Outcome:

Knowledge building:

- How to solve word problems of multiplication, addition and subtraction.
- To build how to solve real-life problems.

Skill Building:

- Problem solving
- Self awareness
- Empathy
- Active listening

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