

# Session 14: Word problems

## (+, -, ×, ÷)

Session Title	Word problems (+, -, ×, ÷)
Objective	<ol style="list-style-type: none"><li>1. Students will be able to solve word problems involving addition, subtraction, multiplication, and division.</li><li>2. Students will demonstrate their understanding by explaining the strategies they used to solve problems.</li></ol>
Concept	<ol style="list-style-type: none"><li>1. Word Problems: Students learn to solve math problems presented in a narrative form, identifying which operation (addition, subtraction, multiplication, or division) to use based on the context.</li></ol>
Material required	<ol style="list-style-type: none"><li>1. Flash cards</li><li>2. work sheets</li></ol>
Methodology	Students solve word problems with teacher support and then independently to reinforce their learning.
Session Duration	90 minutes

## Introduction activity (20 minutes)

Have the children act out the play

Have the children answer all the questions in red.

Title: "**Shopping at Maya's Veggie Store**"

Characters:

- Shopkeeper (Maya)
- Customer 1 (Amit)
- Customer 2 (Lila)

[Scene: Maya is standing behind her vegetable stall with fake or real veggies.]

**Maya** (smiling): Welcome! Fresh vegetables today!

1 kg of tomatoes is 20 rupees. 1 kg of carrots is 30 rupees.

[Amit walks in.]

**Amit:** Hi Maya! I want 2 kg of tomatoes and 1 kg of carrots, please.

**Maya:** That's 2 kg of tomatoes =  $2 \times 20 = 40$  rupees.

1 kg of carrots = 30 rupees.

Total =  $40 + 30 = 70$  rupees.

[Lila enters.]

**Lila:** Hello! I'll take 1 kg of tomatoes and 2 kg of carrots

**Maya:** 1 kg of tomatoes = 20 rupees, 2 kg of carrots =  $2 \times 30 = 60$  rupees.

Total =  $20 + 60 = 80$  rupees.

[Maya looks at the audience.]

**Maya:** Hmm... I wonder how much money I made in total today.

Can you add it up?

Question for the students

How much money did Maya earn from Amit and Lila together?

(Answer:  $70 + 80 = 150$  Rupee's)

## Main Activity (60 minutes)

### Word problems (25 minutes )

#### Addition.

##### 1. Birthday Party

Mia is planning her birthday party. She started with 48 balloons, but her friend Emma brought 37 more balloons. Then, her cousin gave her 25 more balloons.

How many balloons does Mia have now for her birthday party?

Solution:  $48 + 37 + 25 = 110$  balloons

Answer: Mia has 110 balloons for her birthday party.

#### Subtraction

1. Lila and her friends were given 20 markers to share in their art class. After using 7 markers, how many markers are left for the rest of the class to use?

Solution:

$$20 - 7 = 13$$

There are 13 markers left for the rest of the class.

2. The train departed at 2:45 PM and reached its destination at 5:10 PM. How long was the train ride?

Solution:

5:10 PM - 2:45 PM = 2 hours 25 minutes.

## **Multiplication**

1. There are 6 baskets, and each basket contains 8 apples. How many apples are there in total?

Solution:

$$6 \times 8 = 48 \text{ apples.}$$

## **Division**

Problem 1:

A group of 120 students are going on a field trip. If the students are divided equally into 8 buses, how many students will be on each bus?

Solution:

To find how many students are on each bus, divide the total number of students by the number of buses:

$$120 \div 8 = 15$$

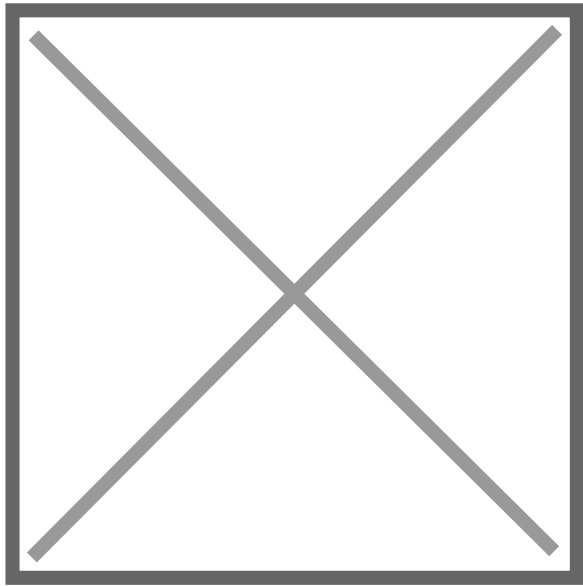
So, there will be 15 students on each bus.

## **Math Relay Race ( 25 minutes)**

Objective: Divide the group into teams. Each team has to solve a math problem before passing the baton to the next teammate. The first team to answer all questions correctly and finish the relay wins.

Operations: Addition, Subtraction, Multiplication, Division.

How to Play: Set up stations with different math problems for each team. Each member of the team solves one problem before passing the baton to the next. The problems can be a mix of operations, and the team must work together to complete them as quickly as possible.



## Review Questions (10 minutes)

- How do you decide which operation to use in a word problem?
- Which type of word problem do you find easiest? Which is hardest? Why?
- What key words help you know when to add, subtract, multiply, or divide?
- How can drawing or using objects help solve word problems?

## Follow-up task (10 minutes)

1. Sarah has 35 apples. She buys 28 more. How many apples does she have now? (Addition)
2. Tom had 82 pencils. He gave 19 to his friend. How many does he have left? (Subtraction)
3. A box contains 6 packs of crayons. Each pack has 12 crayons. How many crayons are there in total? (Multiplication)
4. Emma has 72 candies. She shares them equally among 9 friends. How many candies does each friend get? (Division)

## Expected learning outcome

### **Knowledge building:**

- Comprehension
- Problem-solving skills

**Skill building:**

- Critical thinking
  - Real-world application
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Revision #5

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