

# Model. Teacher Demonstration

V class

## Concept Addition and Subtraction:

### Learning Objectives:-

- \* Students will be able to identify the problems structure & arithmetic operation & solve word problems involving addition or subtraction.

### Teaching learning material:-

- \* Real images, currency notes, ice-cream sticks, straws etc.

### Ask Questions:-

- \* Recall the last three periods topics about addition and subtraction of 1 and 3 digits numbers in 10 minutes

### Introduction to new material:-

Explain them to how to break down the word problem to identify the arithmetic operation and convert word problems into numerical form and how to solve them with the help of examples.

### Word problem:-

Kohli made 120 runs in a match. Rohit made 65 runs less than Kohli in the same match. Find the total runs made by Kohli and Rohit?

Based on the question, can we identify which problem structures does it fall into?

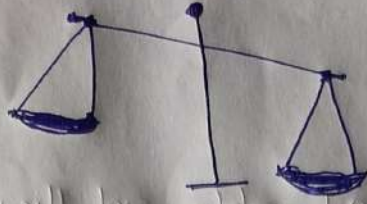
**Step 1:-** Identify the problem structure

Here in the above question falls under two problem structures, they are in the following

- (1) compare problems
- (2) change problems (ie) result unknown.



# Comparison Problems structure:-

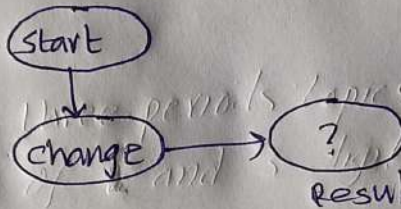


\* Students will be able to identify the problem finding the unknown quantity by difference problems involving addition or subtraction.

## change problem structure:-

here the above problem falls under

\* Result unknown, change problem structure.



**Step 2:-** Identifying the missing element in the problem structure based on the key words of the question. Here we have start, change values but result is missing based on the key words "less than", total etc.

**Step 3:-** Identify the operation to find the missing elements. Here first compare start values and key word less than, we need to subtract smaller value from bigger value and get missing element then add two elements to get result.

**Step 4:-** Apply the suitable operations to find out missing elements.

$$120 - 65 = 55$$

then start value 120 to new value

$$120 + 55 = 175$$

∴ Result is 175

Step 5:-

Rewrite the question of a in the form of a statement with all the values

∴ In match Kohli made 120 runs and Rohit made 55 runs then total runs made by Kohli and Rohit are 175.

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