

Teacher Demonstration :-

Concept : Multiplication

Learning objectives : Students will be able to identify the problem structure & solve word problems involving multiplication

TLM :- Real objects

Ask Questions

- * Recall the multiplication concept
- * A few questions are asked to test prior knowledge of multiplication

Introduction to new material :- Explain them to how to break down the word problem to identify the arithmetic operation and convert word problems into memorial form and how to solve them with the help of examples.

1. There are 20 apples in each box. Ravi has 5 such boxes. What is the total no. of apples in all boxes?
2. Rani bought 4 chocolates and Raju bought 5 times as many chocolates as Rani. How many chocolates did Raju bought?
3. A small vegetable farm is 3m by 5m. What is the area of the vegetable farm?

⇒ 1. There are 20 apples in each box. Ravi has 5 such boxes. What is the total no. of apples in all boxes?

Based on the questions can we identify which problem structure does it fall into?

Step - 1 :- Identify the problem structure

* Here the above question is Equal group problem.

(1) Unknown product (2) Group size unknown

(3) number of groups unknown

Step-2: Identify the missing elements in the problem structured based on the keywords of the question.

Here we have No. of groups and size of each group the value is missing based on the key word told No. of.

Step-3:- Identify the operation to find the missing elements

Here we multiply the No. of groups with size of each group.

Step-4:- Apply the suitable operation to find out the missing elements

$$20 \times 5 = 100 \quad \text{The product value is 100}$$

Step-5:- Rewrite the question in the form of a statement with all the values.

Total No. of apples in all 5 boxes are 100

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