[DIVISION] MATHEMATICS | CLASS -III

Chapter-6

DIVISION

STUDY NOTES

- * Division of 4-digit Numbers
- * Division by a 2-digit Number
- * Division by a 2-digit Number (Word Problems)
- 1. Division of 4-digit Numbers
- EXPLANATION

On dividing the whole or a group of objects into equal parts, we get equal shares. We need to divide an object or a whole number into equal parts to distribute it equally. In the sharing situation, some known quantity (amount) is shared equally among a known number of entities (people, boxes, packages, etc.). What is not known in a sharing situation is the amount of the given quantity per share.



Repeated subtraction is a method of subtracting the equal number of items from a larger group. It is also known as division.

If the same number is repeatedly subtracted from another larger number until the remainder is zero or a number smaller than the number being subtracted, we can write that in the form of division.



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2. Division by a 2-digit Number

EXPLANATION



In math, division is a method used for dividing large numbers into groups or parts. ... Just like all division problems, a large number, which is the dividend, is divided by another number, which is called the divisor, to give a result called the quotient.







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What is division ?

Division is a way to solve problems with large numbers. Basically, these are problems you cannot do in your head.

Here's a trick to mastering division. Use the acronym DMSB, which stands for:



D = Divide

M = Multiply

S = Subtract

B = Bring down

This sequence of letters can be hard to remember, so think of the acronym in the context of a family:

Dad, Mother, Sister, Brother.

- 3. Division by a 2-digit Number (Word Problems)
- **EXPLANATION**

These sums are language based. It is imperative that you start exploring, investigating and playing with these kinds of sums as early as possible. A story problem is a story that has numbers in it. In a story problem we are trying to figure out the missing number. We have to include all of our important parts of a story problem so others can understand our thinking.



For example:

8 6 4 people have been invited to a party. The caterer is arranging tables. In each table 1 2 people can seat. How many tables are needed?

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Solution:

To answer this question, we need to divide 8 6 4 by 1 2

864 ÷ 12

Number of people invited to a party = 864

Number of people can seat in each table = 12



72 tables are needed for 864 people to seat in the party.