Chapter- 7

Division

STUDY NOTES

LEARN ABOUT:

- ❖ DIVISION BY 10, 100 AND 1000
- ❖ DIVISION WITH 5-DIGIT NUMBERS
- ❖ WORD PROBLEMS ON DIVISION

- **DIVISION BY 10, 100 AND 1000-**

DIVIDE BY 10-

EXAMPLE-

378 ÷ 10 =

```
      3 7
   ┌──────
10 │ 3 7 8
   - 3 0 ↓
   ──────
     0 7 8
     - 7 0
     ─────
       8
```

(Note: When divide any number by the divisor 10, the last digit of the dividend is always the remainder and the number formed by the remaining digits is the quotient.)

DIVIDE BY 100-

EXAMPLE-

4,341 ÷ 100 =

```
        4 3
   ┌────────
100 │ 4 3 4 1
    - 4 0 0 ↓
    ─────────
      0 3 4 1
      - 3 0 0
      ───────
        4 1
```

(Note: When we divide any number by the divisor 100, then the last two digits of the dividend will be the remainder and the number formed by the remaining digits is the quotient.)

DIVIDE BY 1000-
EXAMPLE-

68,972 ÷ 1000 =

```
          6 8
      ____________
1000 | 6 8 9 7 2
     -6 0 0 0 ↓
     ___________
       0 8 9 7 2
     -   8 0 0 0
     ___________
         9 7 2
```

(Note: If we divide any number by the divisor 1000, then the last three digits of the dividend is the remainder and the number formed by the remaining digits is the quotient.)

- **DIVISION WITH 5-DIGIT NUMBERS-**

EXAMPLE-

Divide 36,695 by 8.

STEP-1 Consider the first digit from the left i.e 3. Since 3 < 8, consider 2-digits from the left together.

STEP-2 Divide 38 by 8. 8 x 4 = 32, write 4 in the quotient. 38 – 32 = 6.

STEP-3 Bring down the next digit i.e 6. Divide 66 by 8. 8 x 8 = 64, write 8 in the quotient. 66 – 64 = 2.

STEP-4 Bring down the next digit i.e 9. Divide 29 by 8. 8 x 3 = 24, write 3 in the quotient. 29 – 24 = 5.

STEP-5 Bring down the next digit i.e 5. Divide 55 by 8. 8 x 6 = 48, write 6 in the quotient. 55 – 48 = 7.

STEP-6 Since 7 < 8, it is indivisible by 8.

So, QUOTIENT = 4836, REMAINDER = 7

- **WORD PROBLEMS ON DIVISION-**

5 steps should be followed while solving the story sums.

1. Read the question and find out the known facts.
2. Find out the unknown facts (what do you need to know).
3. Find out which operation you will follow to solve the problem.
4. Solve the problem and write the answer in sentence.
5. Check the answer.

KEY WORDS FOR DIVISION WORD PROBLEMS-

1. Cut up
2. How many in each
3. Divide
4. Quotient
5. Goes into
6. Split equally

EXAMPLE-

A school has 25,928 students. The students are divided equally into 8 groups. How many students are there in each group?

SOLUTION-

Total number of students in school = 25,928

Number of groups in which the students are divided = 8

Number of students in each group = 25,928 ÷ 8 = 3,241

Hence, the number of students in each group is 3,241.

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