SESSION : 3
CLASS : 3
SUBJECT : MATHEMATICS
CHAPTER NUMBER: 6
CHAPTER NAME : DIVISION
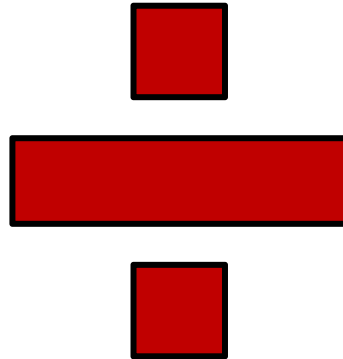**SUBTOPIC : DIVISION OF 4-DIGIT NUMBERS**

EXPLANATION

Do you know what a **DIVISION** mean ???

DIVISION is a quick and powerful way of subtracting the same number over and over again. Or we can say **DIVISION** means **repeated SUBTRACTION**.

Do you know what is the symbol or sign of DIVISION

DIVISION OF 4-DIGIT NUMBERS

In math, **division** is a method used for dividing large numbers into groups or parts. ... The number which is to be divided is called DIVIDEND. The number by which we divide is called DIVISOR.The answer of the division is called QUOTIENT.

DIVISION OF 4-DIGIT NUMBERS

division involves 5 steps:

D	**Divide**
M	**Multiply**
S	**Subtract**
B	**Bring down**
R	**Repeat or Remainder**

Let us take an example: 2864 ÷ 4

STEP 1 DIVIDE

4 ⟌ 2 8 6 4

Consider two digit 28
Now ask question to yourself:
How many fours in 28?

DIVISION OF 4-DIGIT NUMBERS

STEP 2 MULTIPLY

1. So, there are 7 fours in 28.

2. Now write 7 at the top of the 8 and multiply.

$$
\begin{array}{r}
7 \\
4\,\overline{\smash)2\;8\;6\;4} \\
2\;8
\end{array}
$$

3. So, 4 x 7 = 28.

1. Now subtract 28 from 28.

STEP 3 SUBTRACT

```
              7
       ┌─────────────
    4  │  2  8  6  4
   ────┘
    ─      2  8
        ───────────
           0  0
```

2. So, 8 - 8 = 0 in once place.

3. And 2 - 2 = 0 in tens place also.

4. As one 0 is equal to 10 zeroes we write only once.

DIVISION

DIVISION OF 4-DIGIT NUMBERS

STEP 4 BRING DOWN

1. Now bring down 6.

2. So, there are one 4.

3. Put a subtraction sign before it and subtract.

4. Now subtract 6 - 4 = 2 also.

5. Bring down 4.

STEP 5 REPEAT

$$
\begin{array}{r}
7\,1 \\
4\,\overline{)\,2\,8\,6\,4} \\
-\,2\,8 \\
\hline
0\,6 \\
-\,\ \ 4 \\
\hline
2\,4
\end{array}
$$

REMEMBER

$$
4 \overline{)\, \begin{array}{ccc} \cancel{7}\ 7 \\ 2\ 8\ 6\ 4 \end{array}}
$$

$$
\begin{array}{r}
2\ 8 \\
\hline
0
\end{array}
$$

Write 7 above 8,not above 2.

**Exercise-6 A - 1 to 5
bk. pg. 86
in notebook.**

MATHS

DIVISION OF 4-DIGIT NUMBERS

Solve by long division method in your notebook.

1) $1253 \div 7$

```
            1  7  9  ⟶  Q
      ┌─────────────
   7  │ 1  2  5  3
      │ 7
      ─────
         5  5
      ─  4  9
         ─────
            6  3
         ─  6  3
            ─────
               0  ⟶  R
```

2) 6488 ÷ 8

DIVISION OF 4-DIGIT NUMBERS

3) **3789 ÷ 9**

```
              4  2  1  ——→ Q
         ┌──────────────
      9  │  3  7  8  9
         │ — 3  6
         │ ─────────
         │     1  8
         │  —  1  8
         │  ──────────
         │        0  9
         │       —   9
         │      ──────────
         │          0  ——→ R
```

4) 2952 ÷ 8

```
              3   6   9  ────→  Q
         ┌──────────────
    8    │  2   9   5   2
         ─  2   4
            ───────
               5   5
            ─  4   8
               ─────────
                   7   2
                ─  7   2
                   ─────────
                       0  ────→  R
```

DIVISION OF 4-DIGIT NUMBERS

5) **2619 ÷ 9**

```
                    2  9  1  ───►  Q
        ┌──────────────────────
     9  │   2  6  1  9
        │ ─ 1  8
        │ ──────────
        │      8  1
        │    ─ 8  1
        │    ──────────
        │         0  9
        │         ─  9
        │         ──────
        │            0  ───►  R
```

DIVISION
DIVISION OF 4-DIGIT NUMBERS
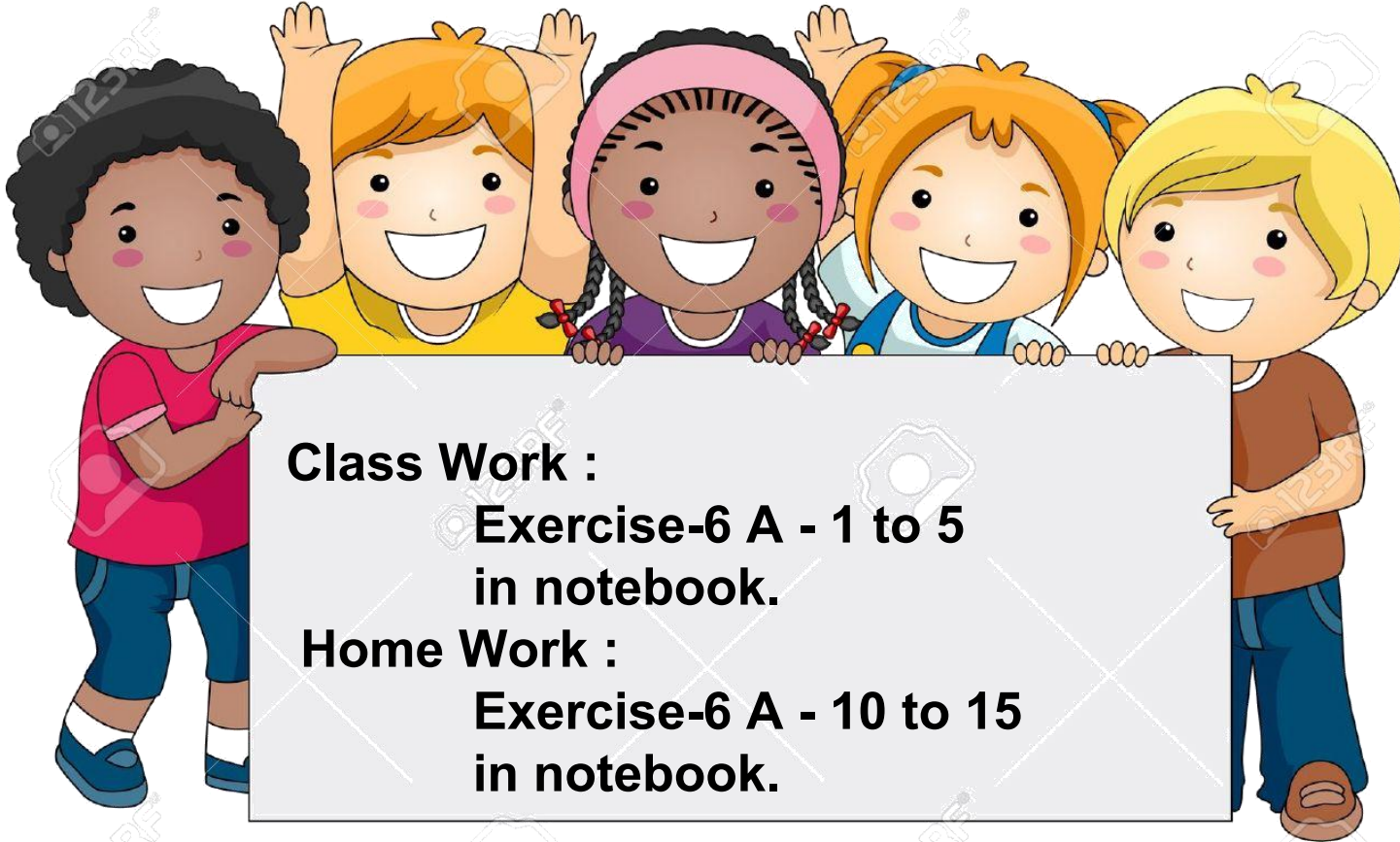
Class Work :
   Exercise-6 A - 1 to 5
   in notebook.
Home Work :
   Exercise-6 A - 10 to 15
   in notebook.

Children are confident to determine that division is dividing objects into equal groups. Explain the steps of Division.Solve problems using Division. Be able to use equal groups, drawings, and measurement quantities to solve division problems and will construct solutions to solve simple division problems, and will be able to explain and defend how they generated answers for division problems.

THANKING YOU
ODM EDUCATIONAL GROUP