

SESSION : 5

CLASS : 3

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 6

CHAPTER NAME : DIVISION

SUBTOPIC : DIVISION OF 4-DIGIT NUMBERS

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE :

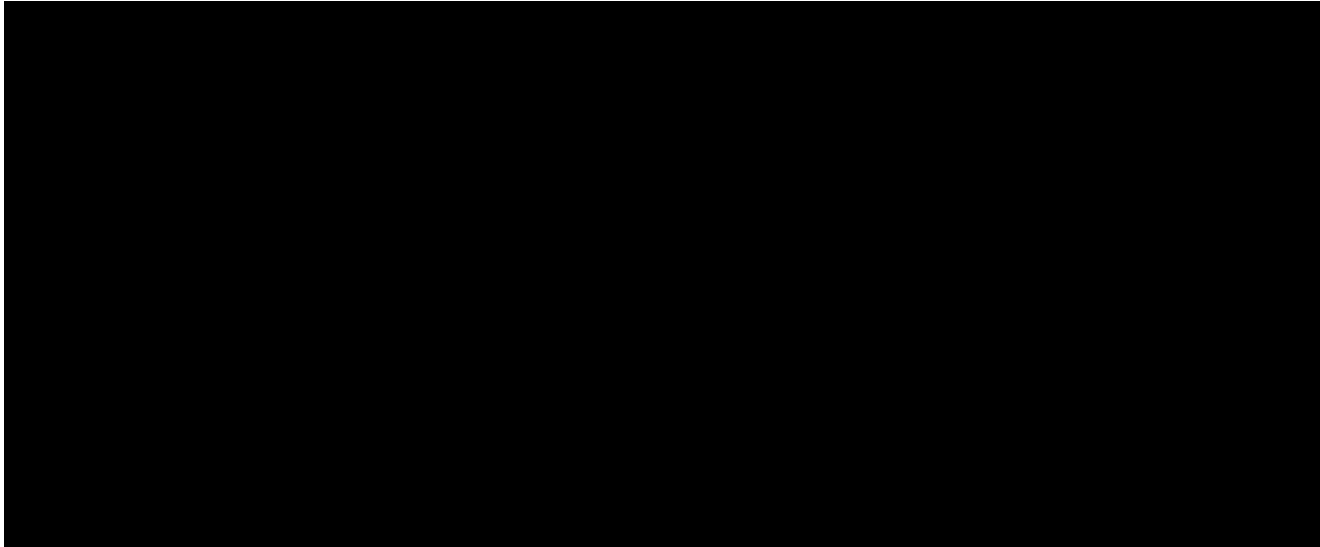
Children will :

- *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.**
- *Will construct solutions to solve simple division problems, and will be able to explain and defend how they generated answers for division problems.**

DIVISION

DIVISION OF 4-DIGIT NUMBERS

VIDEO



MATHS

DIVISION

DIVISION OF 4-DIGIT NUMBERS

EXPLANATION

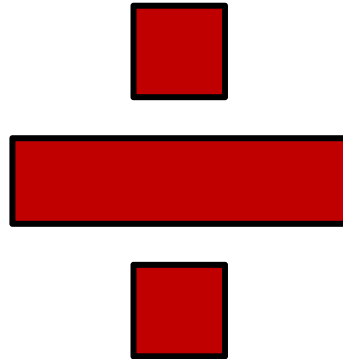
Do you know what a **DIVISION** mean ???

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

DIVISION

DIVISION OF 4-DIGIT NUMBERS

Do you know what is the
symbol or sign of
DIVISION



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

DIVISION OF 4-DIGIT NUMBERS

division involves 5 steps:

D	<u>D</u> ivide
M	<u>M</u> ultiply
S	<u>S</u> ubtract
B	<u>B</u> ring down
R	<u>R</u> epeat or <u>R</u> emainder



DIVISION

DIVISION OF 4-DIGIT NUMBERS

Let us take an example: $2864 \div 4$



$$\begin{array}{r} 4 \overline{) 2864} \end{array}$$

Consider two digit 28

Now ask question to yourself:

How many fours in 28?

DIVISION

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.

$$\begin{array}{r} 7 \\ 4 \overline{) 2864} \\ \underline{28} \\ 00 \end{array}$$

3. So, $4 \times 7 = 28$.

DIVISION

DIVISION OF 4-DIGIT NUMBERS



1. Now subtract 28 from 28.

$$\begin{array}{r} 4 \quad \overline{) 2864} \\ \underline{28} \\ 00 \end{array}$$

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



1. Now bring down 6.
2. So, there are one 4.

$$\begin{array}{r} 71 \\ 4 \overline{) 2864} \\ \underline{28} \\ 06 \\ \underline{04} \\ 24 \end{array}$$

The diagram shows a long division problem: 4 into 2864. The quotient is 71. The first step shows 4 times 7 equals 28, which is subtracted from 28. The next step shows 4 times 1 equals 4, which is subtracted from 6. Red arrows point down from the 6 and the 4 in the dividend to the 6 and 4 in the remainder, indicating the next steps in the process.

3. Put a subtraction sign before it and subtract.

4. Now subtract $6 - 4 = 2$ also.

5. Bring down 4.

STEP 5 REPEAT

DIVISION

DIVISION OF 4-DIGIT NUMBERS



$$\begin{array}{r} \cancel{7} 7 \\ 4 \overline{) 2864} \\ \underline{- 28} \\ 0 \end{array}$$

Write 7 above 8, not above 2.

DIVISION

DIVISION OF 4-DIGIT NUMBERS

**Exercise-6 A - 1 to 4
bk. pg. 86
in notebook.**



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DIVISION OF 4-DIGIT NUMBERS

Solve by long division method in your notebook.

1) $1253 \div 7$

$$\begin{array}{r} 179 \longrightarrow Q \\ 7 \overline{) 1253} \\ \underline{7} \\ 55 \\ \underline{49} \\ 63 \\ \underline{63} \\ 0 \longrightarrow R \end{array}$$

DIVISION

DIVISION OF 4-DIGIT NUMBERS

2) $6488 \div 8$

$$\begin{array}{r} 8 11 \longrightarrow Q \\ \underline{8} \overline{) 6488} \\ \underline{64} \\ 08 \\ \underline{08} \\ 08 \\ \underline{08} \\ 0 \longrightarrow R \end{array}$$

DIVISION

DIVISION OF 4-DIGIT NUMBERS

3) $3789 \div 9$

			4	2	1	→ Q
9	3	7	8	9		
—	3	6	↓			
	1	8		↓		
—	1	8				
		0	9			
		—	9			
			0			→ R

DIVISION

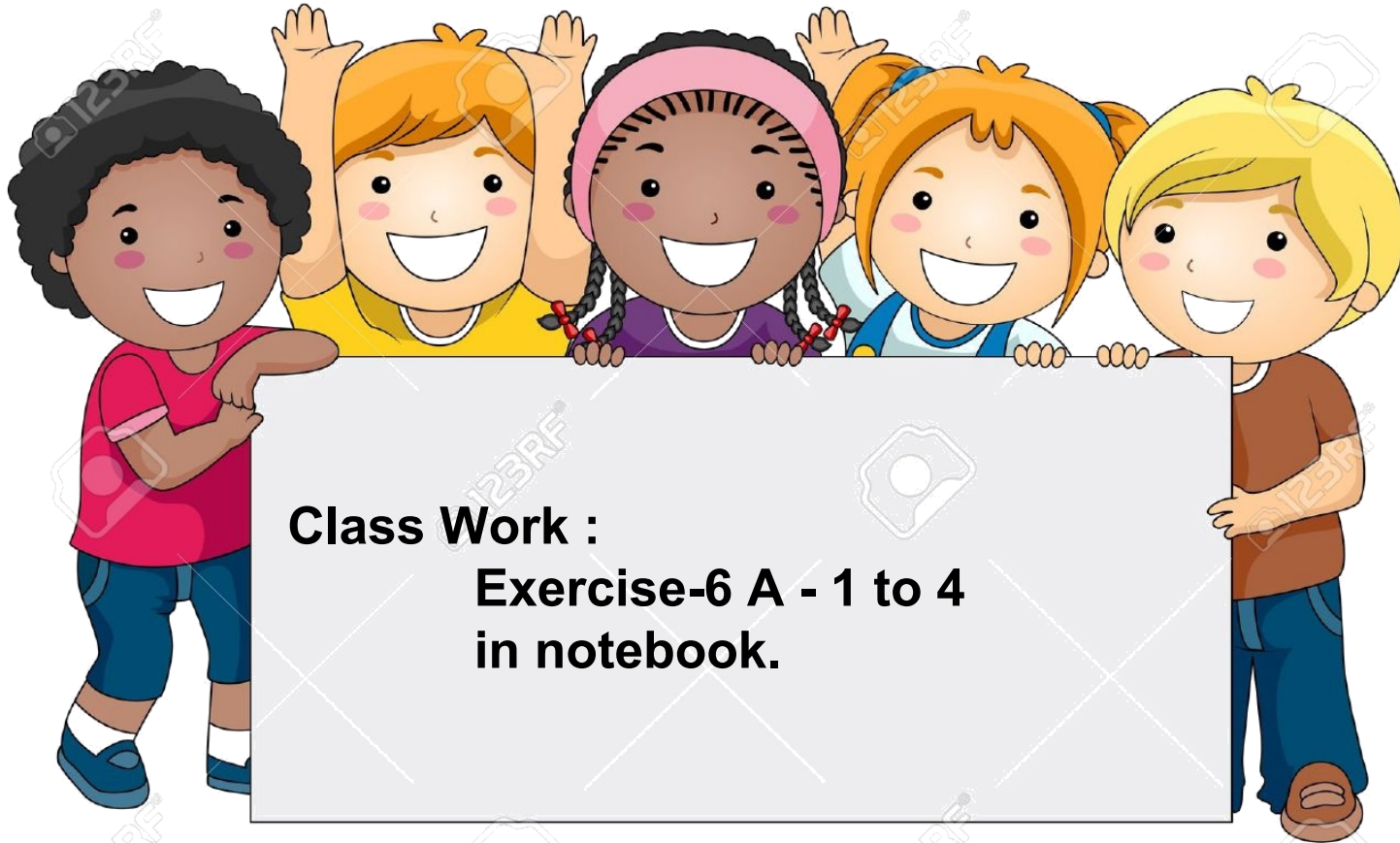
DIVISION OF 4-DIGIT NUMBERS

4) $2952 \div 8$

$$\begin{array}{r} 369 \longrightarrow Q \\ \overline{8 \overline{) 2952}} \\ \underline{- 24} \\ 55 \\ \underline{- 48} \\ 72 \\ \underline{- 72} \\ 0 \longrightarrow R \end{array}$$

DIVISION

DIVISION OF 4-DIGIT NUMBERS



Class Work :

**Exercise-6 A - 1 to 4
in notebook.**

LEARNING OUTCOME:

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