P.4 Mathematics

LESSON ONE WEEK FOUR TOPIC: OPERATIONS ON WHOLE NUMBERS. SUB TOPIC: DIVISION OF WHOLE NUMBERS. A. Using repeated subtraction.

Example 1:

$$6 \div 3 = 6 - 3 = 3 (1^{st} time)$$

 $3 - 3 = 0 (2^{nd} time)$

There are 2 groups. :. $6 \div 3 = 2$.

Example 2:

 $9 \div 2 = 9 - 2 = 7$ (1st time) 7 - 2 = 5 (2nd time) 5 - 2 = 3 (3rd time) 3 - 2 = 1 (4th time)

There are 4 groups remainder 1

:. 9 ÷ 2 = 4 rem 1.

Exercise:

Divide the following numbers using repeated subtraction.

1.	18 ÷ 6	4.	17 ÷ 5
2.	16 ÷ 8	5.	36 ÷ 9
3.	24 ÷ 4	6.	20 ÷ 4

LESSON TWO

TOPIC:OPERATIONS ON WHOLE NUMBERS.SUB TOPIC:DIVISION OF WHOLE NUMBERS.

B: Using long division: (Without remainders) Note*: Emphasize drawing tables*



 $\begin{array}{r}
0 & 6 \\
4 & 2 & 4 \\
0 \times 4 = & - & 0 \\
2 & 4 \\
6 \times 4 & - & 2 & 4 \\
- & 0 \\
\end{array}$

Example 2: 54 ÷ 3

 $\begin{array}{r}
1 \\
3 \\
5 \\
4 \\
1x3 \\
-3 \\
2 \\
8x3 \\
-2 \\
4 \\
8x3 \\
-2 \\
0 \\
0
\end{array}$

Example 3: 627 ÷ 3

$$209$$

$$3 6 2 7$$

$$2 \times 3 = -6 \neq 0$$

$$0 \times 3 = -0 \neq 0$$

$$9 \times 3 = -27$$

$$0$$

$$3 \times 3 = -27$$

$$0$$

Activity.

Use long division to answer the following;

1. 814 ÷ 2	4.	1488 ÷ 4
2. 427 ÷ 7	5.	405 ÷ 9
3. 584 ÷ 8	6.	243 ÷ 3

LESSON THREE

TOPIC:OPERATIONS ON WHOLE NUMBERS.SUB TOPIC:DIVISION OF WHOLE NUMBERS.

C. Using long division with remainders

Example 1:
$$61 \div 5$$

 $1 \times 5 = \frac{5}{6} \frac{6}{1}$
 $1 \times 5 = \frac{-5}{1} \frac{4}{1}$
 $2 \times 5 = \frac{-1}{0} \frac{0}{1}$
:. $61 \div 5 = 12 \text{ rem 1}$
Example 2: $2491 \div 4$
 0622
 42491
 $0x4 = -0 \downarrow$
 24
 $6x4 = -24 \downarrow$
 09
 $2x4 = -\frac{8}{1}$
 3

:. 2491 ÷ 4 = 622 r 3.

Example 3: 32 ÷ 7

$$\begin{array}{r}
0 \quad 4 \\
7 \quad 3 \quad 2 \\
0x7 = - \quad 0 \quad 4 \\
3 \quad 2 \\
4x7 = \quad 2 \quad 8 \\
4
\end{array}$$

Activity

Use long division to answer the following;

1. 814 ÷ 3	4. 584 ÷ 3
2. 249 ÷ 6	5. 488 ÷ 4
3. 427 ÷ 5	6. 243 ÷ 5

LESSON FOUR TOPIC: OPERATIONS ON WHOLE NUMBERS. SUB TOPIC: DIVISION OF WHOLE NUMBERS. D: Dividing numbers by 10.

Example 1:

 $4000 \div 10 = 400\% \div 1\%$ = $400 \div 1$ = 400**Example 2:** $680 \div 10 = 68\% \div 1\%$

$$580 \div 10 = 680 \div 10$$

= 68 ÷ 1
= 68

Activity:

1. 450 ÷ 10	4. 970 ÷ 10
2. 5000 ÷ 10	5. 8000 ÷ 10
3. 160 ÷ 10	6. 6000 ÷ 10

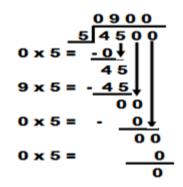
LESSON FIVE TOPIC: OPERATIONS ON WHOLE NUMBERS. SUB TOPIC: DIVISION OF WHOLE NUMBERS. E: Word problems involving division.

Example 1:

Five boys shared 4500 shillings amongst themselves. How much money did each boy get?

5 boys = sh. 4500 1 boy = sh. (4500 ÷ 5)

Emphasize drawing tables



:. Each boy got sh. 900.

Example 2:

A mother gave out 280 oranges to her 4 sons. How many oranges did each get?

4 sons = 280 oranges

1 sons = $(280 \div 4)$ oranges.

- $\begin{array}{r}
 070 \\
 4280 \\
 0x4 = -0 \\
 28 \\
 7x4 = 28 \\
 00 \\
 0x4 = -0 \\
 0 \\
 0x4 = -0 \\
 0
 \end{array}$
- :. Each son got 70 oranges.

Exercise:

- 1. Share 72 books among 3 pupils.
- 2. A basket contains 48 apples. If these apples are put in groups of 3, how many groups are made?
- 3. An employee received sh. 9500 after working for 5 days. How much was he paid for each day?
- 4. Seventy-two pupils arrived in 8 taxis. If each taxi had the same number of pupils, how many pupils travelled in each taxi?
- 5. A shop keeper bought 495 oil tins and then packed them into boxes each building 9 tins. How many boxes did he use?
- 6. A teacher gave out 108 sweets equally to 9 pupils. How many sweets did each pupil receive?