CHAPTER-6 : Division

• Grouping

Count and fill in the blanks:

1. **Bananas in Groups.**
   They are in 3 groups.
   There are 8 bananas in each group.
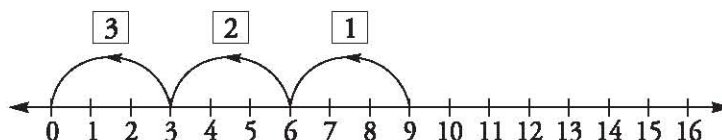
2. **Dogs in Groups.**
   There are 16 dogs.
   They are in 4 groups.
   There are 4 dogs in each group.

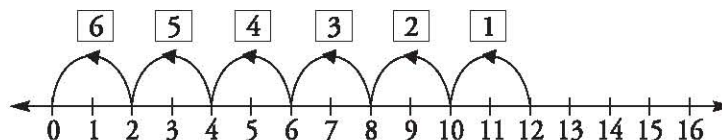**• Division Using the Number Line**

Use number lines given below and fill in the boxes:

There are 3 jumps of 3.

We say: 9 divided by 3 is equal to 3.

We write: $9 \div 3 = \boxed{3}$

There are 6 jumps of 2.

We say: 12 divided by 6 is equal to 2.

We write: $\boxed{12} \div \boxed{6} = \boxed{2}$

Fill in the blanks:

10 leaves are divided into 5 equal groups. Each group has 2 leaves.

We say: 10 divided by 5 is equal to 2.

We write: $\underline{10} \div \underline{5} = \underline{2}$

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12 balls are divided in equal groups. Each group has 3 balls. There are 4 groups.

We say: 12 divided by 4 is equal to 3.

We write: $\underline{12} \div \underline{4} = \underline{3}$

We say: 20 divided by 4 is equal to 5.

We write: $\underline{20} \div \underline{4} = \underline{5}$

We say: 12 divided by 3 is equal to 4.

We write: $\underline{12} \div \underline{3} = \underline{4}$

Fill in the boxes:

2 equal groups			10	÷	2	=	5	
3 equal groups			6	÷	3	=	2	
4 equal groups			12	÷	4	=	3	
5 equal groups			15	÷	5	=	3	
6 equal groups			24	÷	6	=	4	

• Division (Without Remainder)

Do the following divisions:

$$
\begin{array}{r} \boxed{5} \\ 8\overline{)40} \\ -40 \\ \hline 0 \end{array} \quad
\begin{array}{r} \boxed{7} \\ 9\overline{)63} \\ -63 \\ \hline 0 \end{array} \quad
\begin{array}{r} \boxed{7} \\ 6\overline{)42} \\ -42 \\ \hline 0 \end{array} \quad
\begin{array}{r} \boxed{9} \\ 3\overline{)27} \\ -27 \\ \hline 0 \end{array}
$$

$$
\begin{array}{r} \boxed{9} \\ 4\overline{)36} \\ -36 \\ \hline 0 \end{array} \quad
\begin{array}{r} \boxed{8} \\ 8\overline{)64} \\ -64 \\ \hline 0 \end{array} \quad
\begin{array}{r} \boxed{8} \\ 7\overline{)56} \\ -56 \\ \hline 0 \end{array} \quad
\begin{array}{r} \boxed{3} \\ 8\overline{)24} \\ -24 \\ \hline 0 \end{array}
$$

$$
\begin{array}{r} \boxed{5} \\ 7\overline{)35} \\ -35 \\ \hline 0 \end{array} \quad
\begin{array}{r} \boxed{8} \\ 5\overline{)40} \\ -40 \\ \hline 0 \end{array} \quad
\begin{array}{r} \boxed{6} \\ 6\overline{)36} \\ -36 \\ \hline 0 \end{array} \quad
\begin{array}{r} \boxed{8} \\ 9\overline{)72} \\ -72 \\ \hline 0 \end{array}
$$

$$
\begin{array}{r} \boxed{4} \\ 10\overline{)40} \\ -40 \\ \hline 0 \end{array} \quad
\begin{array}{r} \boxed{9} \\ 7\overline{)63} \\ -63 \\ \hline 0 \end{array} \quad
\begin{array}{r} \boxed{4} \\ 9\overline{)36} \\ -36 \\ \hline 0 \end{array} \quad
\begin{array}{r} \boxed{8} \\ 5\overline{)40} \\ -40 \\ \hline 0 \end{array}
$$

Fill in the boxes:

1. $18 ÷ 3 = \boxed{6}$ 2. $24 ÷ 6 = \boxed{4}$

3. $56 ÷ 7 = \boxed{8}$ 4. $32 ÷ 1 = \boxed{32}$

5. $48 ÷ 8 = \boxed{6}$ 6. $72 ÷ 8 = \boxed{9}$

7. $45 ÷ 9 = \boxed{5}$ 8. $70 ÷ 7 = \boxed{10}$

Word problems :

1. $\boxed{7}$
$8\overline{)56}$
-56
———
  0
7 fishes

2. $\boxed{6}$
$9\overline{)54}$
-54
———
  0
6 toffees

3. $\boxed{7}$
$7\overline{)49}$
-49
———
  0
7 pages

4. $\boxed{9}$
$7\overline{)63}$
-63
———
  0
9 weeks

5. $\boxed{8}$
$8\overline{)64}$
-64
———
  0   **8 rupees**

6. $\boxed{9}$
$9\overline{)81}$
-81
———
  0   **9 baskets**

• Division (With Remainder)

Divide and find the quotient and remainder:

$\boxed{5}$ $5\overline{)26}$ -25 ——— 1 Quotient $=\boxed{5}$ Remainder $=\boxed{1}$	$\boxed{9}$ $6\overline{)56}$ -54 ——— 2 Quotient $=\boxed{9}$ Remainder $=\boxed{2}$	$\boxed{7}$ $6\overline{)45}$ -42 ——— 3 Quotient $=\boxed{7}$ Remainder $=\boxed{3}$
$\boxed{5}$ $8\overline{)42}$ -40 ——— 2 Quotient $=\boxed{5}$ Remainder $=\boxed{2}$	$\boxed{8}$ $7\overline{)58}$ -56 ——— 2 Quotient $=\boxed{8}$ Remainder $=\boxed{2}$	$\boxed{9}$ $8\overline{)75}$ -72 ——— 3 Quotient $=\boxed{9}$ Remainder $=\boxed{3}$
$\boxed{6}$ $7\overline{)46}$ -42 ——— 4 Quotient $=\boxed{6}$ Remainder $=\boxed{4}$	$\boxed{4}$ $9\overline{)39}$ -36 ——— 3 Quotient $=\boxed{4}$ Remainder $=\boxed{3}$	$\boxed{5}$ $7\overline{)36}$ -35 ——— 1 Quotient $=\boxed{5}$ Remainder $=\boxed{1}$

$$\begin{array}{r} \boxed{9} \\ 8\overline{)76} \\ -72 \\ \hline 4 \end{array}$$

$$\begin{array}{r} \boxed{8} \\ 7\overline{)61} \\ -56 \\ \hline 5 \end{array}$$

$$\begin{array}{r} \boxed{6} \\ 3\overline{)19} \\ -18 \\ \hline 1 \end{array}$$

Quotient = $\boxed{9}$ Quotient = $\boxed{8}$ Quotient = $\boxed{6}$

Remainder = $\boxed{4}$ Remainder = $\boxed{5}$ Remainder = $\boxed{1}$

Tick (✓) the correct option :

1. 63 ÷ 9 leaves

    no remainder $\boxed{✓}$

2. 76 ÷ 9 gives

    Q = 8, R = 4 $\boxed{✓}$

3. 19 ÷ 2 gives

    Q = 9, R = 1 $\boxed{✓}$