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Subject :- Maths  
Class :- 3  
Chapter :- 2 (Addition)

- Addition is a way of combining two or more numbers or quantities.

Terms of Addition :-

- Numbers adding together are called addends and the result of addition is called to sum.
- The symbol of addition is '+'. It is called the plus sign.

$$3 + 4 = 7$$

We read this addition fact as '3 added to 4 is 7.'

Or, simply '3 plus 4 is 7.'

Here, 3 and 4 are addends and 7 is the sum.

Example 1.

$$\begin{array}{r} 74 \\ + 27 \\ \hline 101 \end{array}$$

addends  
addends  
sum

Example 2.

$$\begin{array}{r} 82 \\ + 75 \\ \hline 157 \end{array}$$

addends  
addends  
sum

## Properties of Addition :-

\* Property 1 :- Add numbers in any order, you will get the same total.

\*  $6 + 5 = 11$

So,

$$\boxed{6 + 5 = 5 + 6}$$

\*  $13 + 25 = 38$

So,

$$\boxed{13 + 25 = 25 + 13}$$

The above examples show that numbers can be added in any order but their sum remains the same.

\* Property 2 :- A change in the grouping of numbers does not change the total.

\* (a)  $5 + 2 + 3 = 10$       (b)  $5 + (2 + 3) = 10$

and  $(5 + 2) + 3 = 10$        $5 + 5 = 10$

$\Rightarrow 7 + 3 = 10$

In a and b.

$$\boxed{(5 + 2) + 3 = 5 + (2 + 3)}$$

The three numbers have been added in different ways, but their sum remains the same.

\* Property 3 :- Adding zero to a number, we get the number itself.

\*  $4 + 0 = 4$

\*  $25 + 0 = 25$

When 0 is added to 4, the sum is 4 itself, and so on.

\* Property 4 :- Adding one to a number, we get the next number.

\*  $4 + 1 = 5$

\*  $12 + 1 = 13$

-: Adding Three Numbers :-

Add 56, 21, 12

Arrange the Numbers in columns.

$$\begin{array}{r} \phantom{+} \phantom{0} \\ 5 \phantom{0} \\ 2 \phantom{1} \\ + 1 \phantom{2} \\ \hline 8 \phantom{9} \end{array}$$

[first add ones and then tens.]

Expanded form Addition

Add 234 + 325

$$\begin{array}{l} 2 \phantom{3} \phantom{4} = 2 \text{ hundreds } 3 \text{ tens } 4 \text{ ones} \\ + 3 \phantom{2} \phantom{5} = 3 \text{ hundreds } 2 \text{ tens } 5 \text{ ones} \\ \hline = 5 \text{ hundreds } 5 \text{ tens } 9 \text{ ones} = 559 \end{array}$$

-: Exercise :-

Add the following :-

Q. Add 288 and 111

288 →  hundreds  tens  ones

111 → +  hundreds  tens  ones

=  hundreds  tens  ones

So,

$288 + 111 = \boxed{\phantom{000}}$

b. Add 174 and 425

$$\begin{array}{r}
 174 \longrightarrow \square \text{ hundreds } \square \text{ tens } \square \text{ ones} \\
 425 \longrightarrow + \square \text{ hundreds } \square \text{ tens } \square \text{ ones} \\
 \hline
 \square \text{ hundreds } \square \text{ tens } \square \text{ ones}
 \end{array}$$

So,

$$174 + 425 = \square$$

c. Add 326 and 341

$$\begin{array}{r}
 326 \longrightarrow \square \text{ hundreds } \square \text{ tens } \square \text{ ones} \\
 341 \longrightarrow + \square \text{ hundreds } \square \text{ tens } \square \text{ ones} \\
 \hline
 \square \text{ hundreds } \square \text{ tens } \square \text{ ones}
 \end{array}$$

So,

$$326 + 341 = \square$$

Addition :- By short Method.  
(Without carrying)

Example :- Add 425 and 263 in short form

Step 1  $\longrightarrow$  step 2  $\longrightarrow$  step 3  $\longrightarrow$  step 4  
 (Arrange the numbers for Addition) (Add ones) (Add tens) (Add hundreds)

$  \begin{array}{r}  \text{H T O} \\  4 \ 2 \ 5 \\  + 2 \ 6 \ 3 \\  \hline  \end{array}  $	$  \begin{array}{r}  \text{H T O} \\  4 \ 2 \ 5 \\  + 2 \ 6 \ 3 \\  \hline  \quad \quad 8  \end{array}  $	$  \begin{array}{r}  \text{H T O} \\  4 \ 2 \ 5 \\  + 2 \ 6 \ 3 \\  \hline  \quad 8 \ 8  \end{array}  $	$  \begin{array}{r}  \text{H T O} \\  4 \ 2 \ 5 \\  + 2 \ 6 \ 3 \\  \hline  6 \ 8 \ 8  \end{array}  $
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So,

$$425 + 263 = 688$$

Exercise TimeAdd :-

$$\begin{array}{r} \text{a. H T O} \\ 142 \\ + 215 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b. H T O} \\ 141 \\ + 126 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c. H T O} \\ 203 \\ + 332 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d. H T O} \\ 122 \\ + 234 \\ + 133 \\ \hline \end{array}$$

$$\begin{array}{r} \text{e. H T O} \\ 215 \\ + 434 \\ + 210 \\ \hline \end{array}$$

$$\begin{array}{r} \text{f. H T O} \\ 111 \\ + 305 \\ + 342 \\ \hline \end{array}$$

Word Problems :-

- Tushar solved 125 questions and Manish solved 203 questions. How many questions did they solve?
- There were 392 boys and 304 girls in a school. How many pupils were there in the school?
- A farmer sold 442 sacks of wheat and 456 sacks of rice. How many sacks of wheat and rice did he sell altogether?
- Three garlands have 142, 132 and 233 flowers respectively. Find the total number of flowers in these garlands.

Addition with carrying :-

In a match Ravi scored 48 runs and Kunal 36 runs. How many runs did they score together?

$$\begin{array}{r} \text{Ravi scored} = 48 \\ \text{Kunal scored} = 36 \\ \hline \text{Total scored} = 48 + 36 \end{array}$$

Step 1. Arrange in columns

$$\begin{array}{r} \text{T} \quad 0 \\ 4 \quad 8 \\ + 3 \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} * \quad \text{T} \quad 0 \\ \boxed{1} \leftarrow \\ 4 \quad 8 \\ + 3 \quad 6 \\ \hline \boxed{1} \quad 4 \end{array}$$

Step 2. Add the ones and regroup

$$\begin{aligned} 8 + 6 &= 14 \\ &= 14 \text{ ones} \\ &= 1 \text{ ten } 4 \text{ ones} \end{aligned}$$

$$\begin{array}{r} * \quad \text{T} \quad 0 \\ \boxed{1} \\ 4 \quad 8 \\ 3 \quad 6 \\ \hline 8 \quad 4 \end{array}$$

Step 3. Write 4 under the ones column and carry 1 to the tens column.

Step 4. Add the tens

$$(1) + 4 + 3 = 1 + 7 = 8$$

Step 5. Write 8 under tens column.

Answer :-

They together scored 84 runs.