

Subject :- Maths
Class :- 3rd
Chapter :- 5 [Addition and Subtraction
of bigger Numbers.]
[Part : 1]

∴ Regrouping (Tens to Hundreds) :- 10 tens make 1 hundred

Example :- 14 tens
Regrouping 14 tens we get,
1 Hundred and 4 tens.

Exercise

Regroup these :-

- a. 18 tens = 1 hundred 8 tens
- b. 15 tens = hundred tens
- c. 17 tens = hundred tens
- d. 12 tens = hundred tens
- e. 14 tens = hundred tens
- f. 16 tens = hundred tens
- g. 19 tens = hundred tens.

∴ Addition of 3 digit Numbers :- [with regrouping]

Expanded form Addition ⇒ Add 238 and 567

$$\begin{array}{r}
 238 = 2 \text{ hundreds } \quad 3 \text{ tens } \quad 8 \text{ ones} \\
 + 567 = 5 \text{ hundreds } \quad 6 \text{ tens } \quad 7 \text{ ones} \\
 \hline
 = 7 \text{ hundreds } \quad 9 \text{ tens } \quad 15 \text{ ones} \\
 = 8 \text{ hundreds } \quad 0 \text{ tens } \quad 5 \text{ ones}
 \end{array}$$

∴ 238 + 567 = 805 ∵ 15 ones = 1 ten + 5 ones

Adding ones to ones, tens to tens, hundreds to hundreds and regroup.

Exercise :-

- Add 278 and 554 and fill in the boxes :-

$$\begin{aligned} 278 &= \square \text{ hundreds } \square \text{ tens } \square \text{ ones} \\ + 554 &= \square \text{ hundreds } \square \text{ tens } \square \text{ ones} \\ \hline &= \square \text{ hundreds } \square \text{ tens } \square \text{ ones} \\ &= \square \text{ hundreds } \square \text{ tens } \square \text{ ones} \end{aligned}$$

$\therefore 278 + 554 = \square$

- Add 673 and 279 and fill in the boxes :-

$$\begin{aligned} 673 &= \square \text{ hundreds } \square \text{ tens } \square \text{ ones} \\ + 279 &= \square \text{ hundreds } \square \text{ tens } \square \text{ ones} \\ \hline &= \square \text{ hundreds } \square \text{ tens } \square \text{ ones} \\ &= \square \text{ hundreds } \square \text{ tens } \square \text{ ones} \end{aligned}$$

$\therefore 673 + 279 = \square$

- Add 439 and 184 and fill in the boxes :-

$$\begin{aligned} 439 &= \square \text{ hundreds } \square \text{ tens } \square \text{ ones} \\ + 184 &= \square \text{ hundreds } \square \text{ tens } \square \text{ ones} \\ \hline &= \square \text{ hundreds } \square \text{ tens } \square \text{ ones} \\ &= \square \text{ hundreds } \square \text{ tens } \square \text{ ones} \end{aligned}$$

$\therefore 439 + 184 = \square$

Addition of 3 digit Numbers:- [with Regrouping]

Column Addition

Add 254 and 576

$$\begin{array}{r}
 \text{H} \quad \text{T} \quad \text{O} \\
 2 \quad 5 \quad 4 \\
 + 5 \quad 7 \quad 6 \\
 \hline
 \end{array}$$

① ←
① 0

Step 1 :- Add ones:

$$4 + 6 = 10 \text{ ones}$$

$$10 \text{ ones} = 1 \text{ ten } 0 \text{ ones}$$

Carry 1 ten to tens

$$\begin{array}{r}
 \text{H} \quad \text{T} \quad \text{O} \\
 2 \quad 5 \quad 4 \\
 + 5 \quad 7 \quad 6 \\
 \hline
 \end{array}$$

① ← ① ←
① 3 ① 0

Step 2 :- Add tens:

$$1 + 5 + 7 = 13 \text{ ones}$$

$$13 \text{ ones} = 1 \text{ hundred} + 3 \text{ tens}$$

Carry 1 hundred to hundreds

$$\begin{array}{r}
 \text{H} \quad \text{T} \quad \text{O} \\
 2 \quad 5 \quad 4 \\
 + 5 \quad 7 \quad 6 \\
 \hline
 \end{array}$$

① ← ① ←
① 3 ① 0
8 ① 3 ① 0

Step 3 :- Add hundreds:

$$1 + 5 + 2 = 8 \text{ hundreds}$$

$$\therefore \boxed{254 + 576 = 830}$$

Exercise :-

Add together and fill in the circles :-

$$\begin{array}{r}
 \text{a) } \begin{array}{ccc}
 \text{O} \leftarrow & \text{O} \leftarrow & \\
 2 & 4 & 7 \\
 +5 & 8 & 4 \\
 \hline
 \text{O} & \text{O} &
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{b) } \begin{array}{ccc}
 \text{O} \leftarrow & \text{O} \leftarrow & \\
 3 & 3 & 7 \\
 +2 & 9 & 8 \\
 \hline
 \text{O} & \text{O} &
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{c) } \begin{array}{ccc}
 \text{O} \leftarrow & \text{O} \leftarrow & \\
 6 & 5 & 4 \\
 +2 & 8 & 9 \\
 \hline
 \text{O} & \text{O} &
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{d) } \begin{array}{ccc}
 \text{O} \leftarrow & \text{O} \leftarrow & \\
 4 & 3 & 2 \\
 +1 & 7 & 9 \\
 \hline
 \text{O} & \text{O} &
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{e) } \begin{array}{ccc}
 \text{O} \leftarrow & \text{O} \leftarrow & \\
 7 & 4 & 6 \\
 +1 & 8 & 5 \\
 \hline
 \text{O} & \text{O} &
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{f) } \begin{array}{ccc}
 \text{O} \leftarrow & \text{O} \leftarrow & \\
 1 & 9 & 4 \\
 +6 & 3 & 8 \\
 \hline
 \text{O} & \text{O} &
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{g) } \begin{array}{ccc}
 \text{O} \leftarrow & \text{O} \leftarrow & \\
 6 & 2 & 7 \\
 +2 & 9 & 4 \\
 \hline
 \text{O} & \text{O} &
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{h) } \begin{array}{ccc}
 \text{O} \leftarrow & \text{O} \leftarrow & \\
 5 & 7 & 9 \\
 +2 & 8 & 6 \\
 \hline
 \text{O} & \text{O} &
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{i) } \begin{array}{ccc}
 \text{O} \leftarrow & \text{O} \leftarrow & \\
 7 & 7 & 4 \\
 +6 & 6 & 6 \\
 \hline
 \text{O} & \text{O} &
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{j) } \begin{array}{ccc}
 \text{O} \leftarrow & \text{O} \leftarrow & \\
 8 & 7 & 4 \\
 +1 & 7 & 9 \\
 \hline
 \text{O} & \text{O} &
 \end{array}
 \end{array}$$

Word Problems

1. In a marriage party, there were 162 men, 118 women and 101 children. How many persons were there in all?
2. In a garden, there are 125 roses, 112 marigold and 64 jasmine plants. How many plants are there in all?
3. On a particular day, 257 people saw the morning show and 273 people saw the evening show of a circus. How many people saw the circus that day?
4. While going from Kanpur to Delhi, a man travelled 218 kilometres in the morning and 192 kilometres in the afternoon. How much did the man travel?
5. Raju read 153 pages of a book in one day and remaining 129 pages the next day. How many pages did the book contain?

6. Praveen got 375 marks in the first test. He got 389 marks in the second test. How many marks did he get in both the tests?
7. In a saree showroom there are 478 silk sarees and 345 cotton sarees. How many sarees are there, in all showroom?
8. A car company launched a new model. The company produced 874 red cars, 736 black cars. How many cars were manufactured in all?
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