

MONTH: JUNE

CHAPTER: 2

## Addition

PAGE:

DATE: / /

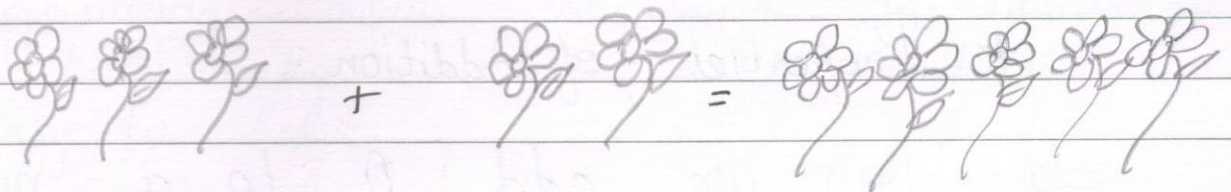
### Technical Terms:

- ★ Regrouping
- ★ Carry Over
- ★ Place Value

### Key Words:

- ★ Addends
- ★ Sum
- ★ Total
- ★ Altogether

(+) is the sign indicates addition.



$$3 + 2 = 5$$

I Add the following by counting forward:

a)  $49 + 2 = \boxed{51}$

b)  $24 + 5 = \boxed{29}$

II Add:

a)

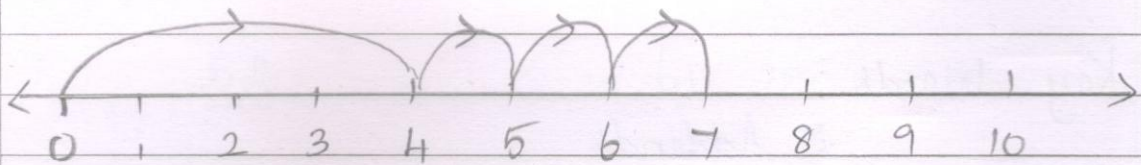
|   |          |          |
|---|----------|----------|
|   | T        | O        |
|   | 3        | 7        |
| + | 5        | 0        |
|   | <u>8</u> | <u>7</u> |

b)

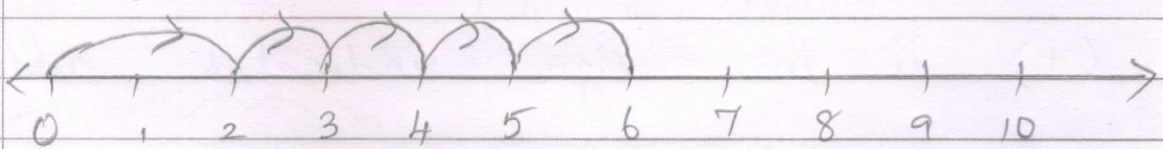
|   |          |          |
|---|----------|----------|
|   | T        | O        |
|   | 7        | 4        |
| + | 2        | 2        |
|   | <u>9</u> | <u>6</u> |

III Add the following on the number line:

a)  $4 + 3 = \boxed{7}$



b)  $2 + 1 + 3 = \boxed{6}$



★ Properties of Addition:

⇒ When we add 0 to a number, the sum is the number itself.

$$\boxed{2 + 0 = 2}$$

⇒ By adding 1 to a number, we get its next number.

$$\boxed{7 + 1 = 8}$$

⇒ Two or three numbers can be added in any order, their sum remains the same.

$$6 + 2 = 8, \quad 2 + 6 = 8$$

\* Adding 2-digit numbers [Without carry over]

IV Add:

a) T O

$$\begin{array}{r} 36 \\ + 3 \\ \hline 39 \end{array}$$

b) T O

$$\begin{array}{r} 47 \\ + 21 \\ \hline 68 \end{array}$$

c) T O

$$\begin{array}{r} 24 \\ + 42 \\ \hline 66 \end{array}$$

\* Regrouping of numbers:

Regrouping means arranging the numbers to make addition / subtraction easy to solve.

V Regroup the following:

a) 4 tens 15 ones  
4 tens (1 ten 5 ones) = 5 tens 5 ones

b) 8 tens 13 ones  
8 tens (1 ten 3 ones) = 9 tens 3 ones

★ Adding 2-digit numbers [with carry over]

VI Add:

$$\begin{array}{r} \text{a)} \quad \begin{array}{cc} \text{T} & \text{O} \\ \textcircled{1} & \\ 3 & 5 \\ + 1 & 6 \\ \hline 5 & 1 \end{array} \end{array}$$

$$\begin{array}{r} \text{b)} \quad \begin{array}{cc} \text{T} & \text{O} \\ \textcircled{1} & \\ 5 & 5 \\ + 2 & 8 \\ \hline 8 & 3 \end{array} \end{array}$$

★ Adding 3-digit numbers [Without carry over]

VII Find the Sum:

$$\begin{array}{r} \text{a)} \quad \begin{array}{ccc} \text{H} & \text{T} & \text{O} \\ 6 & 5 & 4 \\ + 1 & 3 & 1 \\ \hline 7 & 8 & 5 \end{array} \end{array}$$

$$\begin{array}{r} \text{b)} \quad \begin{array}{ccc} \text{H} & \text{T} & \text{O} \\ 4 & 9 & 0 \\ + 2 & 0 & 6 \\ \hline 6 & 9 & 6 \end{array} \end{array}$$

VIII Fill in the missing numbers:

$$\begin{array}{r} \text{a)} \quad \begin{array}{ccc} \text{H} & \text{T} & \text{O} \\ \boxed{2} & 2 & \boxed{6} \\ + 6 & \boxed{4} & 3 \\ \hline 8 & 6 & 9 \end{array} \end{array}$$

$$\begin{array}{r} \text{b)} \quad \begin{array}{ccc} \text{H} & \text{T} & \text{O} \\ 1 & \boxed{4} & 7 \\ + 5 & 5 & \boxed{1} \\ \hline \boxed{6} & 9 & 8 \end{array} \end{array}$$

\* Adding 3-digit numbers [with carry over]

IX Find the Sum:

|                                                                                                                                                                                                                                                                                                                                                         |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|---|--|---|---|---|---|--|--|---|---|---|-------|--|--|---|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|--|---|---|---|---|--|--|---|---|---|-------|--|--|---|---|---|
| <p>a)</p> <table style="margin-left: 40px;"> <tr> <td>H</td> <td>T</td> <td>O</td> </tr> <tr> <td></td> <td>①</td> <td></td> </tr> <tr> <td>1</td> <td>4</td> <td>6</td> </tr> <tr> <td colspan="3">+</td> </tr> <tr> <td>2</td> <td>1</td> <td>8</td> </tr> <tr> <td colspan="3"><hr/></td> </tr> <tr> <td>3</td> <td>6</td> <td>4</td> </tr> </table> | H | T | O |  | ① |  | 1 | 4 | 6 | + |  |  | 2 | 1 | 8 | <hr/> |  |  | 3 | 6 | 4 | <table style="margin-left: 40px;"> <tr> <td>H</td> <td>T</td> <td>O</td> </tr> <tr> <td>①</td> <td>①</td> <td></td> </tr> <tr> <td>4</td> <td>5</td> <td>6</td> </tr> <tr> <td colspan="3">+</td> </tr> <tr> <td>3</td> <td>5</td> <td>9</td> </tr> <tr> <td colspan="3"><hr/></td> </tr> <tr> <td>8</td> <td>1</td> <td>5</td> </tr> </table> | H | T | O | ① | ① |  | 4 | 5 | 6 | + |  |  | 3 | 5 | 9 | <hr/> |  |  | 8 | 1 | 5 |
| H                                                                                                                                                                                                                                                                                                                                                       | T | O |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
|                                                                                                                                                                                                                                                                                                                                                         | ① |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| 1                                                                                                                                                                                                                                                                                                                                                       | 4 | 6 |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| +                                                                                                                                                                                                                                                                                                                                                       |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| 2                                                                                                                                                                                                                                                                                                                                                       | 1 | 8 |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| <hr/>                                                                                                                                                                                                                                                                                                                                                   |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| 3                                                                                                                                                                                                                                                                                                                                                       | 6 | 4 |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| H                                                                                                                                                                                                                                                                                                                                                       | T | O |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| ①                                                                                                                                                                                                                                                                                                                                                       | ① |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| 4                                                                                                                                                                                                                                                                                                                                                       | 5 | 6 |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| +                                                                                                                                                                                                                                                                                                                                                       |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| 3                                                                                                                                                                                                                                                                                                                                                       | 5 | 9 |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| <hr/>                                                                                                                                                                                                                                                                                                                                                   |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| 8                                                                                                                                                                                                                                                                                                                                                       | 1 | 5 |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |

\* Adding numbers with Three Addends:

X Find the Sum:

|                                                                                                                                                                                                                                                                                                   |   |   |   |  |   |   |   |  |   |   |       |  |   |   |                                                                                                                                                                                                                                                                                                                                                         |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|---|---|---|--|---|---|-------|--|---|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|---|--|---|---|---|---|--|--|---|---|---|-------|--|--|---|---|---|
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| T                                                                                                                                                                                                                                                                                                 | O |   |   |  |   |   |   |  |   |   |       |  |   |   |                                                                                                                                                                                                                                                                                                                                                         |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| ①                                                                                                                                                                                                                                                                                                 |   |   |   |  |   |   |   |  |   |   |       |  |   |   |                                                                                                                                                                                                                                                                                                                                                         |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| 6                                                                                                                                                                                                                                                                                                 | 2 |   |   |  |   |   |   |  |   |   |       |  |   |   |                                                                                                                                                                                                                                                                                                                                                         |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| +                                                                                                                                                                                                                                                                                                 |   |   |   |  |   |   |   |  |   |   |       |  |   |   |                                                                                                                                                                                                                                                                                                                                                         |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| 7                                                                                                                                                                                                                                                                                                 | 1 |   |   |  |   |   |   |  |   |   |       |  |   |   |                                                                                                                                                                                                                                                                                                                                                         |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| <hr/>                                                                                                                                                                                                                                                                                             |   |   |   |  |   |   |   |  |   |   |       |  |   |   |                                                                                                                                                                                                                                                                                                                                                         |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| 1                                                                                                                                                                                                                                                                                                 | 8 |   |   |  |   |   |   |  |   |   |       |  |   |   |                                                                                                                                                                                                                                                                                                                                                         |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| H                                                                                                                                                                                                                                                                                                 | T | O |   |  |   |   |   |  |   |   |       |  |   |   |                                                                                                                                                                                                                                                                                                                                                         |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
|                                                                                                                                                                                                                                                                                                   | ① |   |   |  |   |   |   |  |   |   |       |  |   |   |                                                                                                                                                                                                                                                                                                                                                         |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| 4                                                                                                                                                                                                                                                                                                 | 0 | 0 |   |  |   |   |   |  |   |   |       |  |   |   |                                                                                                                                                                                                                                                                                                                                                         |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| +                                                                                                                                                                                                                                                                                                 |   |   |   |  |   |   |   |  |   |   |       |  |   |   |                                                                                                                                                                                                                                                                                                                                                         |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| 2                                                                                                                                                                                                                                                                                                 | 0 | 2 |   |  |   |   |   |  |   |   |       |  |   |   |                                                                                                                                                                                                                                                                                                                                                         |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| <hr/>                                                                                                                                                                                                                                                                                             |   |   |   |  |   |   |   |  |   |   |       |  |   |   |                                                                                                                                                                                                                                                                                                                                                         |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |
| 7                                                                                                                                                                                                                                                                                                 | 1 | 1 |   |  |   |   |   |  |   |   |       |  |   |   |                                                                                                                                                                                                                                                                                                                                                         |   |   |   |  |   |  |   |   |   |   |  |  |   |   |   |       |  |  |   |   |   |

XI Solve the Word Problems:

a) In an Orchard, there are 82 mango trees and 40 apple trees. How many trees are there in all?

OP: +

Ans:

|                       |               |
|-----------------------|---------------|
| Number of mango trees | H T O<br>= 82 |
| Number of apple trees | = (+) 40      |
| Total number of trees | <hr/> = 122   |

Ans: There are 122 trees in an orchard.

b) In a Kitchen, there are 90 spoons, 405 glasses and 120 plates. How many utensils are there in all?

OP: +

H T O

(1)

|                          |              |
|--------------------------|--------------|
| Number of spoons         | = 90         |
| Number of glasses        | = 405        |
| Number of plates         | = 120        |
| Total number of utensils | = <u>615</u> |

Ans: 615 utensils are there in all.

## XII Mind Map:

Addition  
without carry over

Addition of  
2-digit numbers

Addition  
with carry over

Addition

Addition of  
3-digit numbers

Word Problem

88/10/20