

Mental Addition:

Addition strategies

Number complements (Nearest 10 base)

Example – 1 $12 + 8 = 20$

Here 12 and 8 are complement numbers, which sum up to make 20.

Exercise – 1.1

Complete the complement (making the round number)

(1)	<input type="text"/>	+ 13 = 20
(2)	<input type="text"/>	+ 17 = 20
(3)	<input type="text"/>	+ 28 = 30
(4)	34 +	<input type="text"/> = 40
(5)	85 +	<input type="text"/> = 90

Complement Number which makes 10				
1	+	9	=	10
2	+	8	=	10
3	+	7	=	10
4	+	6	=	10
5	+	5	=	10
6	+	4	=	10
7	+	3	=	10
8	+	2	=	10
9	+	1	=	10

Split the number into whole and units

Example : Split 23 into two parts:

So 23 may be written as $\begin{matrix} (20 \\ \downarrow \\ \text{Whole part} \end{matrix} + \begin{matrix} (3) \\ \downarrow \\ \text{Unit part} \end{matrix}$

Exercise – 1.2

(1)	64 =	<input type="text"/>	+	<input type="text"/>
(2)	58 =	<input type="text"/>	+	<input type="text"/>
(3)	93 =	<input type="text"/>	+	<input type="text"/>
(4)	76 =	<input type="text"/>	+	<input type="text"/>
(5)	55 =	<input type="text"/>	+	<input type="text"/>

(1)	73 =	<input type="text"/>	+	<input type="text"/>
(2)	86 =	<input type="text"/>	+	<input type="text"/>
(3)	68 =	<input type="text"/>	+	<input type="text"/>
(4)	44 =	<input type="text"/>	+	<input type="text"/>
(5)	97 =	<input type="text"/>	+	<input type="text"/>

Addition strategy – Splitting the number

Split the number into two parts and add them (one part as whole and rest as unit)

Example

$$28 + 24$$

$$\text{Split 24 into two part} = (\underset{\downarrow}{20} + \underset{\downarrow}{4})$$

Whole part Unit part

$$\text{So } 28 + \underbrace{20 + 4}_{\text{Add}} = 48 + 4 = 52$$

Exercise – 1.3

Solve the following by – Splitting the Number.

(1) $55 + 61 = \underline{\hspace{2cm}}$

(2) $83 + 70 = \underline{\hspace{2cm}}$

(3) $77 + 53 = \underline{\hspace{2cm}}$

(4) $54 + 46 = \underline{\hspace{2cm}}$

(5) $87 + 62 = \underline{\hspace{2cm}}$

(6) $82 + 92 = \underline{\hspace{2cm}}$

(7) $57 + 61 = \underline{\hspace{2cm}}$

(8) $85 + 83 = \underline{\hspace{2cm}}$

(9) $44 + 64 = \underline{\hspace{2cm}}$

(10) $66 + 84 = \underline{\hspace{2cm}}$