

Ex-2.3

Class \rightarrow III
Sub. \rightarrow Maths

Q-1- Add using the expanded form:- (Example)

Expanded form

Th	H	T	O								
4	3	5	4	4000	+	300	+	50	+	4	
+	2	6	8	5	2000	+	600	+	80	+	5
					6000	+	900	+	130	+	9

Th	H	T	O
6	0	0	0
	9	0	0
	1	3	0
			9
+			
7	0	3	9

Ans.

Expanded form

Th	H	T	O							
5	3	9	8		+		+		+	
+	3	8	5	4		+		+		+
						+		+		+

Th	H	T	O

Expanded form

Th	H	T	O							
6	2	8	8		+		+		+	
+	2	9	5	5		+		+		+
						+		+		+

Th	H	T	O

Q-2 \rightarrow Write in expanded form and add.

a- 3630 + 2048

b- 5748 + 2983

c- 6535 + 2796

d- 8745 + 3920

P.T.O.

Q-3 - Add the following numbers by rounding off:

a) - 98 and 9

Solution → 98 to the nearest hundred, then it would be → 100

When rounding a number to the nearest 10, look at the ones place.

9 to the nearest, ten, then it would be → 10

* If the ones digit is 4 or less **round down.**

$$(100 + 10) = 110 \text{ Ans}$$

* If the ones digit 5 or more **round up.**

b) - 31 and 18

c) - 65 and 9

d) - 18 and 8

Q-4-7 Estimate the following sums by rounding off the addends as mentioned:-

a - $5437 + 2782 + 1225$ (to the nearest hundred)

b - $3865 + 5486 + 2334$ (to the nearest thousand)

Example $5437 + 2782 + 1225$

5437 to the nearest hundred = 5400

2782 to the nearest hundred = 2800

1225 to the nearest hundred = 1200

$$5400 + 2800 + 1200 = \underline{9400} \text{ Ans}$$

Class → III

Subject → Maths

Ex-2.1 'Addition'

Example

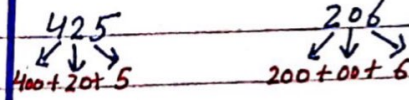
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Addition by breaking up a number:

It is easier to add if we break up a number into smaller numbers.

Add hundred, tens and ones separately.

Add $425 + 206$



Solution → $400 + 200 = 600$

$20 + 00 = 20$

$5 + 6 = 11$

So, = 631

Q-1- Break up the number and find the sum:

a- $52 + 44$ b- $48 + 21$ c- $49 + 30$

d- $212 + 42$ e- $345 + 233$ f- $528 + 210$

Q-2- Add the the following:

$$\begin{array}{r} \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\ 2 \quad 3 \quad 4 \quad 1 \\ + 3 \quad 4 \quad 5 \quad 8 \end{array}$$

$$\begin{array}{r} \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\ 3 \quad 4 \quad 0 \quad 5 \\ + 3 \quad 1 \quad 8 \quad 3 \end{array}$$

$$\begin{array}{r} \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\ 4 \quad 7 \quad 2 \quad 4 \\ + 3 \quad 1 \quad 6 \quad 3 \end{array}$$

$$\begin{array}{r} \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\ 6 \quad 6 \quad 3 \quad 8 \\ + 3 \quad 3 \quad 6 \quad 1 \end{array}$$

$$\begin{array}{r} \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\ 2 \quad 8 \quad 0 \quad 5 \\ + 4 \quad 1 \quad 8 \quad 3 \end{array}$$

$$\begin{array}{r} \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\ 3 \quad 7 \quad 5 \quad 0 \\ + 2 \quad 1 \quad 3 \quad 4 \end{array}$$

Q-3 - Write in columns and add.

a- $5213 + 3054$

b- $3461 + 3337$

c- $2054 + 7024$

d- $5895 + 4001$

e- $6291 + 2507$

f- $3111 + 2118$

Example :-

$$\begin{array}{r} \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\ 5 \quad 2 \quad 1 \quad 3 \\ + 3 \quad 0 \quad 5 \quad 4 \\ \hline 8 \quad 2 \quad 6 \quad 7 \quad \text{Ans} \end{array}$$

Add

3 + 2 = 5

Addition of 4-digit numbers (without regrouping)

We have already learnt to add 3-digit numbers (with and without regrouping) in previous classes. Now we will learn to add 4-digit numbers.

Example: Add 3423 and 2343.

Solution: First, place the number in the columns correctly.

	Th	H	T	O
	3	4	2	3
+	2	3	4	3
	5	7	6	6

Adding ones $3 + 3 = 6$

Adding tens $2 + 4 = 6$

Adding hundreds $4 + 3 = 7$

Adding thousands $3 + 2 = 5$

Tips:

To add 4-digit numbers, first add the ones, then the tens, the hundreds and finally the thousands.

Thus, $3423 + 2343 = 5766$.



Let's Evaluate 2.1



1. Break up the number and find the sum.

a. $52 + 44$

b. $48 + 21$

c. $49 + 30$

d. $65 + 55$

e. $88 + 11$

f. $72 + 33$

g. $212 + 42$

h. $528 + 210$

i. $345 + 233$

2. Add the following:

a.

	Th	H	T	O
	2	3	4	1
+	3	4	5	8

b.

	Th	H	T	O
	3	4	0	5
+	3	1	8	3

c.

	Th	H	T	O
	4	7	2	4
+	3	1	6	3

d.

	Th	H	T	O
	7	2	3	5
+	1	4	2	3

e.

	Th	H	T	O
	6	3	5	1
+	2	0	3	0

f.

	Th	H	T	O
	5	5	0	0
+	3	3	3	3

g.

	Th	H	T	O
	6	6	3	8
+	3	3	6	1

h.

	Th	H	T	O
	2	8	0	5
+	4	1	8	3

i.

	Th	H	T	O
	3	7	5	0
+	2	1	3	4

3. Write in columns and add.

a. $5213 + 3054$

b. $3461 + 3337$

c. $2054 + 7024$

d. $5895 + 4001$

e. $6291 + 2507$

f. $3111 + 2118$



1. I am a 3-digit number. If you add 1 to me, you get a 4-digit number. What number am I?

2. Tell who I am? To know, add the largest 2-digit number and the smallest 3-digit number.

Think and Answer



Addition of 4-digit numbers (with regrouping)

Follow the same method as explained in the addition of 3-digit number in previous classes.

Example: Add 7368 and 6954.

Solution: Place the numbers in the columns correctly.

	Th	H	T	O
			①	
	7	3	6	(8)
+	6	9	5	(4)
				2

Step 1: Add the ones and regroup.

$$8 + 4 = 12$$

(12 is a 2-digit number. Write 2 in the ones place and carry over 1 to the tens place.)

EX-2.2

Q-1 - Add the following:

- (a) $\begin{array}{r} \text{Th H T O} \\ 2345 \\ + 5432 \end{array}$ (b) $\begin{array}{r} \text{Th H T O} \\ 6352 \\ + 1436 \end{array}$ (c) $\begin{array}{r} \text{Th H T O} \\ 3835 \\ + 4062 \end{array}$ (d) $\begin{array}{r} \text{Th H T O} \\ 7544 \\ + 2033 \end{array}$

Q-2 - Find the sums:

- (a) $\begin{array}{r} \text{TTh Th H T O} \\ 4865 \\ + 8358 \end{array}$ (b) $\begin{array}{r} \text{TTh Th H T O} \\ 6708 \\ + 5495 \end{array}$ (c) $\begin{array}{r} \text{TTh Th H T O} \\ 8792 \\ + 3879 \end{array}$

- (d) $\begin{array}{r} \text{TTh Th H T O} \\ 2809 \\ 9394 \\ + 2322 \end{array}$ (e) $\begin{array}{r} \text{TTh Th H T O} \\ 8765 \\ 3564 \\ + 3321 \end{array}$ (f) $\begin{array}{r} \text{TTh Th H T O} \\ 5544 \\ 2355 \\ + 8166 \end{array}$

Q-3 - Do these sums in your notebook:

- a - $4501 + 2377$
 b - $7140 + 2852$
 c - $4175 + 4712$
 d - $6012 + 86 + 804$
 e - $3946 + 5032 + 348$

Example

$\begin{array}{r} \text{Th H T O} \\ 4501 \\ + 2377 \\ \hline 6878 \end{array}$

- TTh = Ten Thousand
 Th = Thousand
 H = Hundred
 T = Ten
 O = One

Addition of three 4-digit numbers

You can add three 4-digit numbers in the same way as you add two 4-digit numbers.

Example : Add 3986, 4535 and 6425.

Solution:

	TTh	Th	H	T	O
	1	1	1	1	
		3	9	8	6
		4	5	3	5
+		6	4	2	5
	1	4	9	4	6

So, $3986 + 4535 + 6425 = 14946$.



Let's Evaluate 3.2

1. Add the following:

a.

	Th	H	T	O
	2	3	4	5
+	5	4	3	2

b.

	Th	H	T	O
	1	1	1	0
+	6	6	6	8

c.

	Th	H	T	O
	7	5	4	4
+	2	0	3	3

d.

	Th	H	T	O
	6	3	5	2
+	1	4	3	6

e.

	Th	H	T	O
	5	7	0	4
+	2	1	8	3

f.

	Th	H	T	O
	3	8	3	5
+	4	0	6	2

2. Find the sum:

a.

	TTh	Th	H	T	O
		4	8	6	5
+		8	3	5	8

b.

	TTh	Th	H	T	O
		6	7	0	8
+		5	4	9	5

(i) $4000 + 3000 + 1500 = ?$

(ii) What will be the sum of 9 thousands, 9 hundreds and 9 ones?

c.

	TTh	Th	H	T	O
		5	9	3	7
+		8	4	9	8

d.

	TTh	Th	H	T	O
		7	9	8	7
+		5	8	4	3

e.

	TTh	Th	H	T	O
		6	6	6	6
+		8	8	8	8

f.

	TTh	Th	H	T	O
		7	8	7	3
+		5	4	6	8

g.

	TTh	Th	H	T	O
		8	7	6	5
+		3	5	6	4

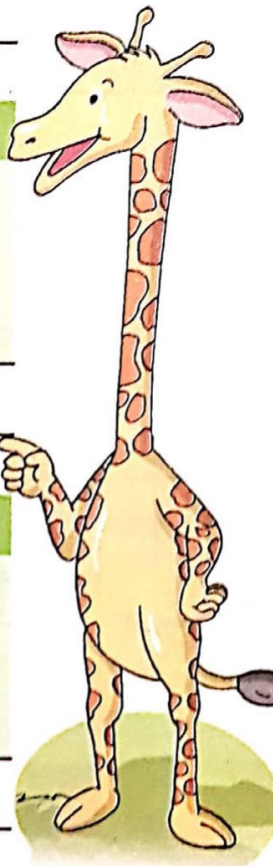


h.

	TTh	Th	H	T	O
		2	8	0	9
+		9	3	9	4

i.

	TTh	Th	H	T	O
		3	9	0	8
+		7	4	9	5



j.

	TTh	Th	H	T	O
		6	8	9	5
+		5	9	6	8

k.

	TTh	Th	H	T	O
		8	7	9	2
+		3	8	7	9

l.

	TTh	Th	H	T	O
		9	3	0	9
+		4	8	9	5

3. Find the sum:

a.

	TTh	Th	H	T	O
		3	6	5	8
		4	8	9	5
+		5	4	3	6

b.

	TTh	Th	H	T	O
		3	9	6	5
		2	8	7	2
+		4	3	4	8

c.

	TTh	Th	H	T	O
		6	3	3	3
		7	6	8	7
+		3	2	5	4



d.

	TTh	Th	H	T	O
		4	4	4	4
		5	5	5	5
+		6	6	6	6

e.

	TTh	Th	H	T	O
		2	8	0	0
		3	0	8	8
+		4	4	4	4



f.

	TTh	Th	H	T	O
		5	4	2	9
		3	6	7	3
+		1	8	9	5

Do these sums in your notebook.

a. $4501 + 2377$

b. $4175 + 4712$

c. $7140 + 2852$

d. $5032 + 3865$

e. $2354 + 3453 + 2208$

f. $3946 + 5032 + 348$

g. $6012 + 86 + 804$

h. $9253 + 3000 + 4795$

