

Se-2 Addition

Addition of 4 digit numbers

Addition without regrouping

Th H T O

3 2 1 5

2 3 6 3

5 5 7 8

→ method 1 using
place values

Method 2 → using expanded form

$$4273 = 4000 + 200 + 70 + 3$$

$$+ 2314 = 2000 + 300 + 10 + 4$$

$$= 6000 + 500 + 80 + 7$$

$$= 6587$$

14 can 2A

2. Write the following in their expanded form and add them

$$a \quad 5264 + 2332$$

$$\rightarrow 5000 + 200 + 60 + 4$$

$$+ 2000 + 300 + 30 + 2$$

$$7000 + 500 + 90 + 6 = 7596$$

$$b \quad 4145 + 2530$$

$$\rightarrow 4000 + 100 + 40 + 5$$

$$2000 + 500 + 30 + 0$$

$$6000 + 600 + 70 + 5$$

$$= 6675$$

c $2035 + 3432$

$$\begin{array}{r} \rightarrow 2,000 + 0 + 30 + 5 \\ 3,000 + 400 + 30 + 2 \\ 5,000 + 400 + 60 + 7 \\ \hline = 5467 \end{array}$$

d $2585 + 3202$

$$\begin{array}{r} \rightarrow 2,000 + 500 + 80 + 5 \\ 3,000 + 200 + 0 + 2 \\ 5,000 + 700 + 80 + 7 \\ \hline \end{array}$$

e $4045 + 2634$

$$\begin{array}{r} 4,000 + 0 + 40 + 5 \\ 2,000 + 600 + 30 + 4 \\ 6,000 + 600 + 70 + 9 \\ \hline = 6,679 \end{array}$$

f $3586 + 4102$

$$\begin{array}{r} 3,000 + 500 + 80 + 6 \\ 4,000 + 100 + 0 + 2 \\ 7,000 + 600 + 80 + 8 \\ \hline \end{array}$$

★ Addition with Regrouping

Th H T O

$$\begin{array}{r} \oplus \oplus \oplus \\ 1 \quad 2 \quad 3 \quad 9 \\ 2 \quad 5 \quad 4 \quad 0 \\ 3 \quad 2 \quad 3 \quad 6 \\ 7 \quad 0 \quad 1 \quad 5 \end{array}$$

[9 can 2B]

2 Arrange the following in column and add

a $2249 + 1064$

Th h T O

$$\begin{array}{r} \oplus \oplus \\ 2 \quad 2 \quad 4 \quad 9 \\ + 1 \quad 0 \quad 6 \quad 4 \\ 3 \quad 3 \quad 1 \quad 3 = 3313 \end{array}$$

Write answers with
comma.

b $4719 + 4275$

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

c $5368 + 3532$

	Th	H	T	O
			①	①
5	3	6	8	
+	3	5	3	2
8	9	0	0	

d $6107 + 2665$

	Th	H	T	O
			①	
6	1	0	7	
+	2	6	6	5
8	7	7	2	

e $7543 + 1258$

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

f $2507 + 1364$

	Th	H	T	O
			①	
2	5	0	7	
+	1	3	6	4
3	8	7	1	

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3 Which is bigger the sum of the largest 3-digit number and smallest 2-digit number or the sum of the sum of the smallest 4-digit number

The sum of largest 3-digit number and smallest 2 digit number

	①
9	99
+	10
10	09

The sum of the smallest 4 digit number and largest 2-digit number

$$\begin{array}{r} 1000 \\ + 99 \\ \hline 1099 \end{array} \rightarrow \text{This is bigger}$$

5 Soniya selects a number between 560 and 570 and another number between 520 and 530 she says if I add the two numbers the sum will always lie between 1080 and 1090 Is she correct? Justify your answer

No, the sum of the largest number of both the groups will be greater than 1090.

properties of Addition

Order property

Grouping property

* Adding Zero to a number

Adding zero to any number gives the same number $9999 + 0 = 9999$

4 can 20

1 Add the two numbers given in parts i) and ii) of each problem and compare the total

a i $6427 + 2815$

$$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 6427 \\ + 2815 \\ \hline 9242 \end{array}$$

ii $2815 + 6427$

$$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 2815 \\ + 6427 \\ \hline 9242 \end{array}$$

i = ii = 9242

b i $5816 + 3239$

$$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 5816 \\ + 3239 \\ \hline 9055 \end{array}$$

ii $3239 + 5816$

$$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 3239 \\ + 5816 \\ \hline 9055 \end{array}$$

i = ii = 9055

c i $2845 + 3420$

$$\begin{array}{r} \textcircled{1} \\ 2845 \\ + 3420 \\ \hline 6265 \end{array}$$

ii $3420 + 2845$

$$\begin{array}{r} \textcircled{1} \\ 3420 \\ + 2845 \\ \hline 6265 \end{array}$$

i = ii = 6265

2 Add the three numbers given in parts i) ii) iii) and iv) of each problem and compare the total

i) $3124 + 2341 + 4169$

ii) $2341 + 4169 + 3124$

①②	①③	②①	③②
1) $\begin{array}{r} 3124 \\ 2341 \\ +4169 \\ \hline 9634 \end{array}$	ii) $\begin{array}{r} 3124 \\ 4169 \\ +2341 \\ \hline 9634 \end{array}$	iii) $\begin{array}{r} 2341 \\ 4169 \\ +3124 \\ \hline 9634 \end{array}$	iv) $\begin{array}{r} 4169 \\ 3124 \\ +2341 \\ \hline 9634 \end{array}$

ii) $3520 + 2471 + 2669$

iii) $2471 + 3520 + 2669$

①①②	①①③	②①①	③①③
i) $\begin{array}{r} 3520 \\ +2471 \\ 2669 \\ \hline 8650 \end{array}$	ii) $\begin{array}{r} 2471 \\ +3520 \\ 2669 \\ \hline 8650 \end{array}$	iii) $\begin{array}{r} 3520 \\ +2669 \\ 2471 \\ \hline 8650 \end{array}$	iv) $\begin{array}{r} 2669 \\ +3520 \\ 2471 \\ \hline 8650 \end{array}$

3 Using the properties of addition fill in the blank

a) $1040 + 2080 = 2080 + 1040$ ✓

b) $675 + 1394 = 1394 + 675$ ✓

c) $327 + 2375 = 2375 + 327$ ✓

d) $0 + 2715 = 2715$ ✓

e) $8383 + 0 = 8383$ ✓

f) $(600 + 288 + 1397) = 600 + (288 + 1397)$ ✓

g) $(3173 + 678) + 5001 = 3173 + (678 + 5001)$ ✓

h) $(3475 + 2656) + 1494 = (3475 + 1494) + 2656$ ✓

write a no. 4

28-6-25

I Can 2E

Date _____
Page _____

1 Solve the following word problems

a There are 4875 male visitors and 2605 female visitors in an exhibition. What is the total number of visitors in the exhibition?

→ No. of male = 4875

No. of female = 2605

∴ The total no. of visitors

$$\begin{array}{r} 4875 \\ + 2605 \\ \hline 7480 \end{array}$$

There were 7480 visitors in an exhibition

2 A train runs 7745 Km. Another train runs 1855 Km more than the first train. How many kilometres did the other train run?

A train runs 7745 Km
Another train runs 1855 Km more than first train

∴ Distance of the other train

classmate

Date _____
Page _____

$$\begin{array}{r} 7745 \\ + 1855 \\ \hline 9600 \end{array}$$

The other train runs 9600 Km

3 There are 3895 men, 2927 women and 2404 children in a village. Find the total population of a village.

→ No. of men = 3895

No. of women = 2927

No. of children = 2404

$$\begin{array}{r} 3895 \\ + 2927 \\ + 2404 \\ \hline 9231 \end{array}$$

The total population of the village is 9231

- 4 Ram Lal is a famous sweet seller in Lucknow. Every day 12000 ladoos 1305 gulab jamun and 2430 barfies are made at his shop. Calculate the total pieces of sweets prepared at his shop in one day.

-7

$$\begin{aligned}\text{No. of ladoos} &= 1200 \\ \text{No. of gulab jamun} &= 1305 \\ \text{No. of barfies} &= 2430\end{aligned}$$

Total pieces of sweets

$$\begin{array}{r} 1200 \\ + 1305 \\ \hline 2430 \\ \hline 4935 \end{array}$$

Ram Lal prepared 4,935 pieces of sweets in one day.

- 5 A zoo had 2809 animals and birds in all in a specific 1102 migratory birds made nests in zoo. How many animals and birds were there in zoo?

-7

$$\begin{aligned}\text{No. of animal and birds in a zoo} &= 2809 \\ \text{No. of migratory birds in a zoo} &= 1102\end{aligned}$$

Total no. of animals and birds after joining

$$\begin{array}{r} 2809 \\ + 1102 \\ \hline 3911 \end{array}$$

∴ There are 3911 animals and birds in the zoo after the migratory birds joined.

2 Solve the following problem use only the information that we need

1 Rita's school has 2035 students. Soroj's school which is 112 Km away has 2145 students. How many students are there in both the school altogether?

→ No. of students in Rita's school = 2035
No. of students in Soroj's school = 2145 ✓

$$\begin{array}{r} \text{Total students} \\ 2035 \\ + 2145 \\ \hline 4180 \end{array}$$

There are 4180 students in both the school altogether.

2 Raja took part in car rally along with 727 other people. On the first day he covered 485 Km, the second day 398 Km and the third day 502 Km. How much distance did he cover in all?

→ Distance covered by Raja

on first day = 485 Km

on second day = 398 Km ✓

on third day = 502 Km

$$\begin{array}{r} \text{Total distance} = \\ 485 \\ + 398 \\ + 502 \\ \hline 1385 \end{array}$$

∴ Raja covered 1385 Km in all ✓

3 There were 3264 men watching a table tennis match in an indoor hall. The capacity of indoor hall is 8000 people. There were also 2164 women watching the match. How many people in all there to watch the match?

→ No. of men watching a table tennis match = 3264

No. of women = 2164 ✓

$$\begin{array}{r} \text{Total number of people} = 3264 \\ + 2164 \\ \hline 5428 \end{array}$$

There were 5428 people in all to watch

Estimating the sum $\rightarrow$

Actual sum	Estimating sum
$\begin{array}{r} 00 \\ 534 \\ + 469 \\ \hline 1003 \end{array}$	$\begin{array}{r} 500 \\ + 500 \\ \hline 1000 \end{array}$

T can 2E

1 Find the estimated and actual sums of the following by rounding the numbers to the nearest 100.

a 3805 and 380

Actual sum	estimated sum
$\begin{array}{r} 00 \\ 3805 \\ + 380 \\ \hline 4185 \end{array}$	$\begin{array}{r} 3800 \\ + 400 \\ \hline 4200 \end{array}$

b 438 and 2028

Actual sum	estimated sum
$\begin{array}{r} 00 \\ 2028 \\ + 438 \\ \hline 2466 \end{array}$	$\begin{array}{r} 2000 \\ + 400 \\ \hline 2400 \end{array}$

c 985 and 3842

Actual sum	estimated sum
$\begin{array}{r} 00 \\ 3842 \\ + 985 \\ \hline 4827 \end{array}$	$\begin{array}{r} 3800 \\ + 1000 \\ \hline 4800 \end{array}$

d 3320 and 2591

Actual sum	estimated sum
$\begin{array}{r} 00 \\ 3320 \\ + 2591 \\ \hline 5911 \end{array}$	$\begin{array}{r} 3300 \\ + 2600 \\ \hline 5900 \end{array}$

e 3485 and 1234

Actual sum	estimated sum
① 3485 + 1234 <u>4719</u> ✓	3500 1200 <u>4700</u> ✓

f 5084 and 1482

Actual sum	estimated sum
① 5084 1482 <u>6566</u> ✓	5100 + 1500 <u>6600</u> ✓

- 2 Ms Kapoor went shopping with Rs 2843 she withdrew Rs 1800 more from an ATM on her way to the market. How much money did she have now? Estimated the answer by rounding the numbers to the nearest 100.

Initial amount is Rs Rs 2843
= rounded to the nearest 100 is Rs 2800
Withdrawn amount is Rs 1,800
It is already a multiple of 100

$$\begin{array}{r} \textcircled{1} \\ 2800 \\ + 1800 \\ \hline 4600 \end{array} \quad \checkmark$$

∴ Ms Kapoor have 4600 rupees ✓

- 3 Mona spent Rs 2495 on clothes and Rs 1580 on food. Estimated the total amount she spent. Round the number to the nearest 100.

Solution Money spent on clothes = Rs 2495
rounded to the nearest 100 is = 2500 ✓

money spent on food = Rs 1580
rounded to the nearest 100 is = 1600

$$\begin{array}{r} \textcircled{1} \\ 2500 \\ + 1600 \\ \hline 4100 \end{array} \quad \checkmark$$

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∴ Mona spent Rs 4100 in total