

St. Andrews Scots Sr. Sec. School
 9th Avenue, I.P. Extension, Patparganj, Delhi – 110092
 Session: 2023-2024

CLASS: IV SUBJECT: MATHEMATICS TOPIC : L-4 Subtraction

Questions to be done:

Ex-1 Q1(BOOK) Q2(a)(c)(COPY)

Ex-2 Q1(BOOK) Q2(a)(e)(f) + Q3(COPY)

Ex-3 Q1(c)(BOOK) Q2(b)(COPY) Q3(b)(BOOK)

Ex-4 Q2 and Q3 (COPY)

Ex-5 (BOOK)

Ex-6 Q1(b)(d) + Q2 (COPY)

Ex-7 Q1(a)(c)+ Q2(a)(c)+Q3(a)(c)+Q4(b) (COPY)

Worksheets to be done in notebook only.

Exercise-1

1. (a) (ii) Other number = $5885 - 3176 = 2709$

$$\begin{array}{r} \textcircled{7} \textcircled{15} \\ 5 \ 8 \ 8 \ 5 \\ - 3 \ 1 \ 7 \ 6 \\ \hline 2 \ 7 \ 0 \ 9 \end{array}$$

- (b) (i) The cost of video game = ₹ $6885 - ₹ 2875 = ₹ 4010$

$$\begin{array}{r} 6 \ 8 \ 8 \ 5 \\ - 2 \ 8 \ 7 \ 5 \\ \hline 4 \ 0 \ 1 \ 0 \end{array}$$

2. (a) $\textcircled{3} \textcircled{12}$

$$\begin{array}{r} 4 \ 2 \ 5 \ 4 \\ - 1 \ 8 \ 3 \ 2 \\ \hline 2 \ 4 \ 2 \ 2 \end{array}$$

- (b) $\textcircled{4} \textcircled{16}$

$$\begin{array}{r} 6 \ 4 \ 5 \ 6 \\ - 3 \ 1 \ 4 \ 8 \\ \hline 3 \ 3 \ 0 \ 8 \end{array}$$

- (c) $\textcircled{6} \textcircled{16} \textcircled{18}$

$$\begin{array}{r} 9 \ 7 \ 7 \ 8 \\ - 5 \ 4 \ 8 \ 9 \\ \hline 4 \ 2 \ 8 \ 9 \end{array}$$

Exercise-2

1. (a)
$$\begin{array}{r} 5\ 7\ 9\ 1\ 3 \\ - 2\ 4\ 6\ 0\ 1 \\ \hline 3\ 3\ 3\ 1\ 2 \end{array}$$

(b)
$$\begin{array}{r} 7\ 7\ 7\ 7\ 7 \\ - 4\ 2\ 4\ 2\ 4 \\ \hline 3\ 5\ 3\ 5\ 3 \end{array}$$

(c)
$$\begin{array}{r} \textcircled{5}\ \textcircled{9}\ \textcircled{9}\ \textcircled{9}\ \textcircled{10} \\ \cancel{6}\ \cancel{0}\ \cancel{0}\ \cancel{0}\ \cancel{0} \\ - 4\ 5\ 4\ 5\ 4 \\ \hline 1\ 4\ 5\ 4\ 6 \end{array}$$

2. (a) $74156 - 32034 = 42122$

$$\begin{array}{r} 7\ 4\ 1\ 5\ 6 \\ - 3\ 2\ 0\ 3\ 4 \\ \hline 4\ 2\ 1\ 2\ 2 \end{array}$$

(b) $74156 - 25364 = 48792$

$$\begin{array}{r} \textcircled{6}\ \textcircled{13}\ \textcircled{10}\ \textcircled{15} \\ \cancel{7}\ \cancel{4}\ \cancel{1}\ \cancel{5}\ 6 \\ - 2\ 5\ 3\ 6\ 4 \\ \hline 4\ 8\ 7\ 9\ 2 \end{array}$$

(c) $66000 - 9999 = 56001$

$$\begin{array}{r} \textcircled{5}\ \textcircled{15}\ \textcircled{9}\ \textcircled{9}\ \textcircled{10} \\ \cancel{6}\ \cancel{6}\ \cancel{0}\ \cancel{0}\ \cancel{0} \\ - 9\ 9\ 9\ 9 \\ \hline 5\ 6\ 0\ 0\ 1 \end{array}$$

(d) $47234 - 13532 = 33702$

$$\begin{array}{r} \textcircled{6}\ \textcircled{12} \\ 4\ \cancel{7}\ \cancel{2}\ 3\ 4 \\ - 1\ 3\ 5\ 3\ 2 \\ \hline 3\ 3\ 7\ 0\ 2 \end{array}$$

(e) $62345 - 17828 = 44517$

$$\begin{array}{r} \textcircled{5}\ \textcircled{11}\ \textcircled{13}\ \textcircled{3}\ \textcircled{15} \\ \cancel{6}\ \cancel{2}\ \cancel{3}\ \cancel{4}\ \cancel{5} \\ - 1\ 7\ 8\ 2\ 8 \\ \hline 4\ 4\ 5\ 1\ 7 \end{array}$$

(f) $99999 - 23458 = 76541$

$$\begin{array}{r} 9\ 9\ 9\ 9\ 9 \\ - 2\ 3\ 4\ 5\ 8 \\ \hline 7\ 6\ 5\ 4\ 1 \end{array}$$

3. The smallest 6-digit number = 100000

The greatest 5-digit number = 99999

Required difference = $100000 - 99999 = 1$

$$\begin{array}{r} \textcircled{0}\ \textcircled{9}\ \textcircled{9}\ \textcircled{9}\ \textcircled{10} \\ \cancel{1}\ \cancel{0}\ \cancel{0}\ \cancel{0}\ \cancel{0} \\ - 9\ 9\ 9\ 9\ 9 \\ \hline 0\ 0\ 0\ 0\ 1 \end{array}$$

Exercise-3

1. (a)
$$\begin{array}{r} 8\ 6\ 4\ 3\ 1\ 8 \\ -4\ 4\ 3\ 2\ 0\ 7 \\ \hline 4\ 2\ 1\ 1\ 1\ 1 \end{array}$$
 (b)
$$\begin{array}{r} \textcircled{4}\ \textcircled{12}\ \textcircled{12} \quad \textcircled{3}\ \textcircled{10} \\ \cancel{8}\ \cancel{8}\ \cancel{2}\ 6\ \cancel{4}\ \cancel{0} \\ -2\ 7\ 5\ 3\ 2\ 4 \\ \hline 2\ 5\ 7\ 3\ 1\ 6 \end{array}$$
 (c)
$$\begin{array}{r} \textcircled{3}\ \textcircled{13} \quad \textcircled{6}\ \textcircled{12} \\ 6\ \cancel{4}\ \cancel{8}\ 6\ \cancel{7}\ \cancel{2} \\ -3\ 1\ 9\ 5\ 1\ 7 \\ \hline 3\ 2\ 4\ 1\ 5\ 5 \end{array}$$

2. (a) $4,83,695 - 1,51,343 = 3,32,352$
$$\begin{array}{r} 4\ 8\ 3\ 6\ 9\ 5 \\ -1\ 5\ 1\ 3\ 4\ 3 \\ \hline 3\ 3\ 2\ 3\ 5\ 2 \end{array}$$
 (b) $7,14,345 - 5,37,705 = 1,76,640$
$$\begin{array}{r} \textcircled{6}\ \textcircled{10}\ \textcircled{13}\ \textcircled{13} \\ \cancel{7}\ \cancel{1}\ \cancel{4}\ \cancel{3}\ 4\ 5 \\ -5\ 3\ 7\ 7\ 0\ 5 \\ \hline 1\ 7\ 6\ 6\ 4\ 0 \end{array}$$

3. (a)
$$\begin{array}{r} 7\ 6\ \textcircled{3}\ 1\ \textcircled{4}\ 5 \\ -\textcircled{4}\ 2\ 1\ \textcircled{3}\ 0\ 8 \\ \hline 3\ \textcircled{4}\ 1\ 8\ 3\ \textcircled{7} \end{array}$$
 (b)
$$\begin{array}{r} 8\ \textcircled{9}\ 6\ 7\ \textcircled{7}\ 4 \\ -2\ 5\ \textcircled{3}\ 5\ 4\ 2 \\ \hline \textcircled{6}\ 4\ 3\ \textcircled{2}\ 3\ \textcircled{2} \end{array}$$

Exercise-4

1.

$$\begin{array}{r} \textcircled{1} \\ 5\ 4\ 3\ 2 \\ +6\ 3\ 1\ 4 \\ \hline 11\ 7\ 4\ 6 \end{array}$$

Checking :

$$\begin{array}{r} \textcircled{0}\textcircled{11} \\ \cancel{1}\cancel{1}\ 7\ 4\ 6 \\ -6\ 3\ 1\ 4 \\ \hline 5\ 4\ 3\ 2 \end{array} \quad \text{or} \quad \begin{array}{r} \textcircled{0}\textcircled{11} \\ \cancel{1}\cancel{1}\ 7\ 4\ 6 \\ -5\ 4\ 3\ 2 \\ \hline 6\ 3\ 1\ 4 \end{array}$$

2.

$$\begin{array}{r} \textcircled{1}\textcircled{1}\ \textcircled{1}\ \textcircled{1} \\ 8\ 9\ 6\ 4\ 3 \\ +5\ 4\ 3\ 9\ 2 \\ \hline 14\ 4\ 0\ 3\ 5 \end{array}$$

Checking :

$$\begin{array}{r} \textcircled{0}\textcircled{13}\ \textcircled{13}\ \textcircled{9}\ \textcircled{13} \\ \cancel{1}\cancel{4}\ \cancel{4}\ \cancel{0}\ \cancel{3}\ 5 \\ -5\ 4\ 3\ 9\ 2 \\ \hline 8\ 9\ 6\ 4\ 3 \end{array} \quad \text{or} \quad \begin{array}{r} \textcircled{0}\textcircled{13}\ \textcircled{13}\ \textcircled{9}\ \textcircled{13} \\ \cancel{1}\cancel{4}\ \cancel{4}\ \cancel{0}\ \cancel{3}\ 5 \\ -8\ 9\ 6\ 4\ 3 \\ \hline 5\ 4\ 3\ 9\ 2 \end{array}$$

3.

$$\begin{array}{r} \textcircled{5}\ \textcircled{16}\ \textcircled{13}\ \textcircled{13} \\ 6\ 7\ \cancel{4}\ \cancel{8}\ 1 \\ -5\ 9\ 9\ 8\ 1 \\ \hline 7\ 4\ 5\ 0 \end{array}$$

Checking :

$$\begin{array}{r} \textcircled{1}\ \textcircled{1}\ \textcircled{1} \\ 7\ 4\ 5\ 0 \\ +5\ 9\ 9\ 8\ 1 \\ \hline 6\ 7\ 4\ 3\ 1 \end{array}$$

Exercise-5

1. 28,172 2. 72,998 3. 1 4. 0

Exercise-6

1. (a) $2,51,743 + 6,21,301 - 1,19,254 = 7,53,790$

$\begin{array}{r} \textcircled{1} \\ 2\ 5\ 1\ 7\ 4\ 3 \\ + 6\ 2\ 1\ 3\ 0\ 1 \\ \hline 8\ 7\ 3\ 0\ 4\ 4 \end{array}$	$\begin{array}{r} \textcircled{6}\ \textcircled{12}\ \textcircled{9}\ \textcircled{14} \\ 8\ 7\ 3\ 0\ 4\ 4 \\ - 1\ 1\ 9\ 2\ 5\ 4 \\ \hline 7\ 5\ 3\ 7\ 9\ 0 \end{array}$
---	--

(b) $3,00,192 + 4,32,170 - 2,99,429 = 4,32,933$

$\begin{array}{r} \textcircled{1} \\ 3\ 0\ 0\ 1\ 9\ 2 \\ + 4\ 3\ 2\ 1\ 7\ 0 \\ \hline 7\ 3\ 2\ 3\ 6\ 2 \end{array}$	$\begin{array}{r} \textcircled{6}\ \textcircled{12}\ \textcircled{11}\ \textcircled{13}\ \textcircled{5}\ \textcircled{12} \\ 7\ 3\ 2\ 3\ 6\ 2 \\ - 2\ 9\ 9\ 4\ 2\ 9 \\ \hline 4\ 3\ 2\ 9\ 3\ 3 \end{array}$
---	--

(c) $9,99,999 - 3,33,333 + 2,22,222 = 8,88,888$

$\begin{array}{r} 9\ 9\ 9\ 9\ 9\ 9 \\ - 3\ 3\ 3\ 3\ 3\ 3 \\ \hline 6\ 6\ 6\ 6\ 6\ 6 \end{array}$	$\begin{array}{r} 6\ 6\ 6\ 6\ 6\ 6 \\ + 2\ 2\ 2\ 2\ 2\ 2 \\ \hline 8\ 8\ 8\ 8\ 8\ 8 \end{array}$
--	--

(d) $5,29,516 - 1,02,053 + 25,970 - 18,325 = 4,35,108$

$\begin{array}{r} \textcircled{4}\ \textcircled{11} \\ 5\ 2\ 9\ 5\ 1\ 6 \\ - 1\ 0\ 2\ 0\ 5\ 3 \\ \hline 4\ 2\ 7\ 4\ 6\ 3 \end{array}$	$\begin{array}{r} \textcircled{1}\ \textcircled{1}\ \textcircled{1} \\ 4\ 2\ 7\ 4\ 6\ 3 \\ + 2\ 5\ 9\ 7\ 0 \\ \hline 4\ 5\ 3\ 4\ 3\ 3 \end{array}$	$\begin{array}{r} \textcircled{4}\ \textcircled{13}\ \textcircled{2}\ \textcircled{13} \\ 4\ 5\ 3\ 4\ 3\ 3 \\ - 1\ 8\ 3\ 2\ 5 \\ \hline 4\ 3\ 5\ 1\ 0\ 8 \end{array}$	
---	--	---	--

2. $5,45,327 + 3,25,173 - 2,20,154 - 9,999 + 1,001 = 6,41,348$

$\begin{array}{r} \textcircled{1}\ \textcircled{1}\ \textcircled{1} \\ 5\ 4\ 5\ 3\ 2\ 7 \\ + 3\ 2\ 5\ 1\ 7\ 3 \\ \hline 8\ 7\ 0\ 5\ 0\ 0 \end{array}$	$\begin{array}{r} \textcircled{4}\ \textcircled{9}\ \textcircled{10} \\ 8\ 7\ 0\ 5\ 0\ 0 \\ - 2\ 2\ 0\ 1\ 5\ 4 \\ \hline 6\ 5\ 0\ 3\ 4\ 6 \end{array}$
$\begin{array}{r} \textcircled{4}\ \textcircled{9}\ \textcircled{12}\ \textcircled{13}\ \textcircled{16} \\ 6\ 5\ 0\ 3\ 4\ 6 \\ - 9\ 9\ 9\ 9 \\ \hline 6\ 4\ 0\ 3\ 4\ 7 \end{array}$	$\begin{array}{r} 6\ 4\ 0\ 3\ 4\ 7 \\ + 1\ 0\ 0\ 1 \\ \hline 6\ 4\ 1\ 3\ 4\ 8 \end{array}$

Exercise-7

1. (a) 45 rounded off to the nearest tens = 50

56 rounded off to the nearest tens = 60

Estimated sum = $50 + 60 = 110$

①

$$\begin{array}{r} 50 \\ + 60 \\ \hline 110 \end{array}$$

(b) 635 rounded off to the nearest tens = 640

425 rounded off to the nearest tens = 430

Estimated sum = $640 + 430 = 1070$

①

$$\begin{array}{r} 640 \\ + 430 \\ \hline 1070 \end{array}$$

(c) 486 rounded off to the nearest tens = 490

36 rounded off to the nearest tens = 40

Estimated sum = $490 + 40 = 530$

①

$$\begin{array}{r} 490 \\ + 40 \\ \hline 530 \end{array}$$

2. (a) 982 rounded off to the nearest hundreds = 1000

848 rounded off to the nearest hundreds = 800

Estimated sum = $1000 + 800 = 1800$

$$\begin{array}{r} 1\ 0\ 0\ 0 \\ +\ 8\ 0\ 0 \\ \hline 1\ 8\ 0\ 0 \end{array}$$

- (b) 4320 rounded off to the nearest hundreds = 4300

4175 rounded off to the nearest hundreds = 4200

Estimated sum = $4300 + 4200 = 8500$

$$\begin{array}{r} 4\ 3\ 0\ 0 \\ +\ 4\ 2\ 0\ 0 \\ \hline 8\ 5\ 0\ 0 \end{array}$$

- (c) 3557 rounded off to the nearest hundreds = 3600

2598 rounded off to the nearest hundreds = 2600

Estimated sum = $3600 + 2600 = 6200$

$$\begin{array}{r} \textcircled{1} \\ 3\ 6\ 0\ 0 \\ +\ 2\ 6\ 0\ 0 \\ \hline 6\ 2\ 0\ 0 \end{array}$$

3. (a) 92 rounded off to the nearest tens = 90

48 rounded off to the nearest tens = 50

Estimated difference = $90 - 50 = 40$

$$\begin{array}{r} 9\ 0 \\ -\ 5\ 0 \\ \hline 4\ 0 \end{array}$$

- (b) 735 rounded off to the nearest tens = 740

525 rounded off to the nearest tens = 530

Estimated difference = $740 - 530 = 210$

$$\begin{array}{r} 7\ 4\ 0 \\ -\ 5\ 3\ 0 \\ \hline 2\ 1\ 0 \end{array}$$

- (c) 786 rounded off to the nearest tens = 790

56 rounded off to the nearest tens = 60

Estimated difference = $790 - 60 = 730$

$$\begin{array}{r} 7\ 9\ 0 \\ -\ 6\ 0 \\ \hline 7\ 3\ 0 \end{array}$$

4. (a) 872 rounded off to the nearest hundreds = 900

810 rounded off to the nearest hundreds = 800

Estimated difference = $900 - 800 = 100$

$$\begin{array}{r} 9\ 0\ 0 \\ -\ 8\ 0\ 0 \\ \hline 1\ 0\ 0 \end{array}$$

- (b) 5434 rounded off to the nearest hundreds = 5400

3279 rounded off to the nearest hundreds = 3300

Estimated difference = $5400 - 3300 = 2100$

$$\begin{array}{r} 5\ 4\ 0\ 0 \\ -\ 3\ 3\ 0\ 0 \\ \hline 2\ 1\ 0\ 0 \end{array}$$

- (c) 2598 rounded off to the nearest hundreds = 2600

1741 rounded off to the nearest hundreds = 1700

Estimated difference = $2600 - 1700 = 900$

$$\begin{array}{r} \textcircled{1}\ \textcircled{16} \\ 2\ 6\ 0\ 0 \\ -\ 1\ 7\ 0\ 0 \\ \hline 9\ 0\ 0 \end{array}$$

Review Exercise

1. (a) (iv) $90000 - 1 = 89999$
 (b) (iv) $1 \text{ lakh} - 100 \text{ thousands} = 100000 - 100000 = 0$
 (c) (i) $100000 - 60606 = 39394$

$$\begin{array}{r} \textcircled{1} \textcircled{0} \textcircled{0} \textcircled{0} \textcircled{0} \textcircled{0} \\ \cancel{X} \cancel{X} \cancel{X} \cancel{X} \cancel{X} \cancel{X} \\ - 60606 \\ \hline 39394 \end{array}$$

- (d) (ii) $8 \text{ thousands} - 8 \text{ hundreds} = 8000 - 800 = 7200$

$$\begin{array}{r} \textcircled{2} \textcircled{0} \\ \cancel{X} \cancel{X} 00 \\ - 800 \\ \hline 7200 \end{array}$$

2. (a)

$$\begin{array}{r} \textcircled{8} \textcircled{12} \textcircled{13} \textcircled{14} \textcircled{12} \\ \cancel{X} \cancel{X} \cancel{X} \cancel{X} \cancel{X} \\ - 54869 \\ \hline 38583 \end{array}$$

Checking :

$$\begin{array}{r} \textcircled{1} \textcircled{1} \textcircled{1} \textcircled{1} \\ 38583 \\ + 54869 \\ \hline 93452 \end{array}$$

- (b)

$$\begin{array}{r} \textcircled{8} \textcircled{16} \textcircled{12} \textcircled{12} \\ 89782 \\ - 67845 \\ \hline 21887 \end{array}$$

Checking :

$$\begin{array}{r} \textcircled{1} \textcircled{1} \textcircled{1} \\ 21887 \\ + 67845 \\ \hline 89732 \end{array}$$

- (c)

$$\begin{array}{r} \textcircled{7} \textcircled{15} \textcircled{8} \textcircled{12} \\ \cancel{X} \cancel{X} 792 \\ - 66543 \\ \hline 19249 \end{array}$$

Checking :

$$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 19249 \\ + 66543 \\ \hline 85792 \end{array}$$

3. Smaller number = $65432 - 7194 = 58238$

$$\begin{array}{r} \textcircled{5} \textcircled{15} \textcircled{3} \textcircled{12} \textcircled{12} \\ \cancel{X} \cancel{X} \cancel{X} \cancel{X} \cancel{X} \\ - 7194 \\ \hline 58238 \end{array}$$

Thus, the smaller number is 58238.

4. Required number = $50000 - 2461 - 1693 = 45846$

So, Nitin started
with the number
45846.

$$\begin{array}{r} \textcircled{4} \textcircled{9} \textcircled{9} \textcircled{9} \textcircled{10} \\ \cancel{X} \cancel{X} \cancel{X} \cancel{X} \cancel{X} \\ - 2461 \\ \hline 47539 \end{array} \quad \begin{array}{r} \textcircled{6} \textcircled{14} \textcircled{13} \\ 47839 \\ - 1693 \\ \hline 45846 \end{array}$$

5. Number of males = Population of city - Number of females

$$= 5,75,600 - 3,33,785$$

$$= 2,41,815$$

Thus, the number of males in the city is 2,41,815.

$$\begin{array}{r} \textcircled{4} \textcircled{15} \textcircled{9} \textcircled{10} \\ 578888 \\ - 333785 \\ \hline 241815 \end{array}$$