

St. Andrews Scots Sr. Sec. School

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Session: 2022-2023

Class: IV

Subject: Mathematics

Topic: Addition and Subtraction

3. Addition and Subtraction

Solutions

Exercise 3A

1. (a)
$$\begin{array}{r} \text{TTh Th H T O} \\ 2\ 3\ 4\ 7\ 5 \\ + 1\ 2\ 3\ 2\ 4 \\ \hline 3\ 5\ 7\ 9\ 9 \end{array}$$

(b)
$$\begin{array}{r} \text{TTh Th H T O} \\ 6\ 8\ 0\ 2\ 4 \\ + 2\ 1\ 7\ 3\ 4 \\ \hline 8\ 9\ 7\ 5\ 8 \end{array}$$

(c)
$$\begin{array}{r} \text{TTh Th H T O} \\ 3\ 2\ 8\ 9\ 0 \\ + 4\ 3\ 1\ 0\ 6 \\ \hline 7\ 5\ 9\ 9\ 6 \end{array}$$

(d)
$$\begin{array}{r} \text{TL L TTh Th H T O} \\ 3\ 8\ 4\ 5\ 6\ 8\ 2 \\ + 2\ 4\ 0\ 3\ 1\ 5 \\ \hline 4\ 0\ 8\ 5\ 9\ 9\ 7 \end{array}$$

(e)
$$\begin{array}{r} \text{L TTh Th H T O} \\ 1\ 4\ 2\ 8\ 3\ 6 \\ + 2\ 8\ 2\ 3\ 0\ 4 \\ \hline 4\ 2\ 5\ 1\ 4\ 0 \end{array}$$

(f)
$$\begin{array}{r} \text{TTh Th H T O} \\ 2\ 4\ 8\ 0\ 1 \\ 3\ 6\ 0\ 4 \\ + 1\ 2\ 8\ 9\ 2 \\ \hline 4\ 1\ 2\ 9\ 7 \end{array}$$

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

(h)
$$\begin{array}{r} \text{L TTh Th H T O} \\ 1\ 2\ 3\ 4\ 5\ 6 \\ 5\ 4\ 3\ 2\ 6\ 1 \\ + 5\ 1\ 2\ 3\ 4 \\ \hline 7\ 1\ 7\ 9\ 5\ 1 \end{array}$$

(i)
$$\begin{array}{r} \text{L TTh Th H T O} \\ 1\ 6\ 2\ 1\ 9\ 8 \\ 2\ 1\ 4\ 8\ 0\ 4 \\ 1\ 2\ 5\ 6\ 8\ 2 \\ + 2\ 0\ 1\ 3\ 8\ 4 \\ \hline 7\ 0\ 4\ 0\ 6\ 8 \end{array}$$

(j)
$$\begin{array}{r} \text{TTh Th H T O} \\ 9\ 1\ 6\ 0 \\ 1\ 2\ 3\ 4\ 7 \\ + 6\ 2\ 4\ 0\ 0 \\ \hline 8\ 3\ 9\ 0\ 7 \end{array}$$

(k)
$$\begin{array}{r} \text{L TTh Th H T O} \\ 1\ 8\ 4\ 2\ 6\ 0 \\ 2\ 5\ 9\ 7\ 3\ 1 \\ + 1\ 7\ 1\ 1\ 3\ 8 \\ \hline 6\ 1\ 5\ 1\ 2\ 9 \end{array}$$

(l)
$$\begin{array}{r} \text{L TTh Th H T O} \\ 9\ 0\ 0\ 0\ 0\ 0 \\ 8\ 0\ 0\ 0\ 0 \\ 6\ 0\ 0\ 0 \\ + 2\ 3 \\ \hline 9\ 8\ 6\ 0\ 2\ 3 \end{array}$$

2. (a)
$$\begin{array}{r} \text{L TTh Th H T O} \\ 6\ 3\ 4\ 1\ 7 \\ 9\ 8\ 0\ 0\ 1 \\ + 2\ 3\ 4\ 9\ 5 \\ \hline 1\ 8\ 4\ 9\ 1\ 3 \end{array}$$

(b)
$$\begin{array}{r} \text{L TTh Th H T O} \\ 3\ 2\ 2\ 4\ 7\ 8 \\ 1\ 3\ 9\ 8\ 0 \\ + 6\ 2\ 4\ 7\ 1\ 7 \\ \hline 9\ 6\ 1\ 1\ 7\ 5 \end{array}$$

(c)
$$\begin{array}{r} \text{L TTh Th H T O} \\ 1\ 2\ 3\ 4\ 5\ 6 \\ 2\ 8\ 4\ 9\ 7 \\ + 9\ 3\ 0 \\ \hline 1\ 5\ 2\ 8\ 8\ 3 \end{array}$$

(d)
$$\begin{array}{r} \text{TL L TTh Th H T O} \\ 1\ 8\ 7\ 5 \\ 6\ 2\ 3\ 4 \\ 9\ 0\ 9\ 1 \\ + 2\ 3\ 4\ 8\ 1\ 7\ 6 \\ \hline 2\ 3\ 6\ 5\ 3\ 7\ 6 \end{array}$$

Exercise 3B

1. (a) 356289 (b) 358947 (c) 564556
 (d) 63888 (e) 636494

2. (a) Arranging in columns, we get

$$\begin{array}{r} 33560 \\ + 678336 \\ \hline 711896 \end{array} \quad \text{and} \quad \begin{array}{r} 678336 \\ + 33560 \\ \hline 711896 \end{array}$$

Thus, the sum of both the pairs remains same, if we change order of the numbers.

- (b) Arranging in columns, we get

$$\begin{array}{r} 957688 \\ + 348964 \\ \hline 1306652 \end{array} \quad \text{and} \quad \begin{array}{r} 348964 \\ + 957688 \\ \hline 1306652 \end{array}$$

Thus, the sum of both the pairs remains same, if we change order of the numbers.

- (c) Arranging in columns, we get

$$\begin{array}{r} 43543 \\ + 16253 \\ \hline 59796 \end{array} \quad \text{and} \quad \begin{array}{r} 16253 \\ + 43543 \\ \hline 59796 \end{array}$$

Thus, the sum of both the pairs remains same, if we change order of the numbers.

- (d) Arranging in columns, we get

$$\begin{array}{r} 657678 \\ 78689 \\ + 34356 \\ \hline 770723 \end{array} \quad \text{and} \quad \begin{array}{r} 78689 \\ 657678 \\ + 34356 \\ \hline 770723 \end{array}$$

Thus, the sum of both the pairs remains same, if we change order of the numbers.

- (e) Arranging in columns, we get

$$\begin{array}{r} 3454 \\ 85476 \\ + 345672 \\ \hline 434602 \end{array} \quad \text{and} \quad \begin{array}{r} 85476 \\ 3454 \\ + 345672 \\ \hline 434602 \end{array}$$

Thus, the sum of both the pairs remains same, if we change order of the numbers.

Exercise 3C

1. (a)
$$\begin{array}{r} \text{TThThHTO} \\ 81249 \\ - 20137 \\ \hline 61112 \end{array}$$
 (b)
$$\begin{array}{r} \text{TThThHTO} \\ 24682 \\ - 13471 \\ \hline 11211 \end{array}$$
 (c)
$$\begin{array}{r} \text{LTThThHTO} \\ 957348 \\ - 326217 \\ \hline 631131 \end{array}$$
- (d)
$$\begin{array}{r} \text{LTThThHTO} \\ 708564 \\ - 602321 \\ \hline 106243 \end{array}$$
 (e)
$$\begin{array}{r} \text{LTThThHTO} \\ 351700 \\ - 6248 \\ \hline 345452 \end{array}$$
 (f)
$$\begin{array}{r} \text{LTThThHTO} \\ 432170 \\ - 342819 \\ \hline 89351 \end{array}$$

- (g)
$$\begin{array}{r} \text{LTThThHTO} \\ 392647 \\ - 186251 \\ \hline 206396 \end{array}$$
 (h)
$$\begin{array}{r} \text{LTThThHTO} \\ 898934 \\ - 564318 \\ \hline 334616 \end{array}$$
 (i)
$$\begin{array}{r} \text{LTThThHTO} \\ 725704 \\ - 19834 \\ \hline 705870 \end{array}$$

2. (a)
$$\begin{array}{r} \text{LTThThHTO} \\ 984715 \\ - \quad 6280 \\ \hline 978435 \end{array}$$
 (b)
$$\begin{array}{r} \text{TL LTThThHTO} \\ 9898324 \\ - \quad 232374 \\ \hline 9665950 \end{array}$$
- (c)
$$\begin{array}{r} \text{LTThThHTO} \\ 502501 \\ - \quad 980 \\ \hline 501521 \end{array}$$
 (d)
$$\begin{array}{r} \text{LTThThHTO} \\ 600000 \\ - \quad 68329 \\ \hline 531671 \end{array}$$

3. (a)
$$\begin{array}{r} \text{TL LTThThHTO} \\ 1046302 \\ - 563008 \\ \hline 483294 \end{array}$$
 (b)
$$\begin{array}{r} \text{TThThHTO} \\ 68321 \\ - 39634 \\ \hline 28687 \end{array}$$
 (c)
$$\begin{array}{r} \text{LTThThHTO} \\ 500000 \\ - \quad 98421 \\ \hline 401579 \end{array}$$

Exercise 3D

1. (a) 48579 (b) 57670 (c) 58500
(d) 864456 (e) 0 (f) 977684
2. (a) 10 (b) 1 (c) 0
(d) 1000 (e) 10

Exercise 3E

1. Visitors of google in January = 595760
Visitors of google in February = + 714835
Total visitors = 1310595
2. Total TV sets made in the year 2013 = 287560
TV sets made in December = -7832
Number of TV sets made till November = 279728
3. Number of votes of Ruhi = 436550
Number of votes by which she won = -83999
So, number of votes of Ronit = 352551

$$\begin{array}{r}
 4. \quad 500000 \\
 -26793 \\
 \hline
 473207
 \end{array}$$

So, the population of town = 473207.

$$\begin{array}{r}
 5. \text{ Total amount Sona had} = ₹ 9,25,100 \\
 \text{Amount left} = - ₹ 69,340 \\
 \hline
 \text{Thus, cost of vehicle} = ₹ 8,55,760
 \end{array}$$

$$\begin{array}{r}
 6. \quad \begin{array}{r} 45385 \\ +82355 \\ \hline \text{Sum} = 1,27,740 \end{array} \quad \begin{array}{r} 1,33,671 \\ -1,27,740 \\ \hline 5,931 \end{array}
 \end{array}$$

So, the required answer = 5,931

$$\begin{array}{r}
 7. \text{ Number of bricks used in house} = 12345 \\
 \text{Number of bricks used in well} = +392 \\
 \hline
 \text{Total bricks used} = 12737 \\
 \\
 \text{Total number of bricks the man had} = 15,600 \\
 \text{Number of bricks used} = -12,737 \\
 \hline
 \text{Number of bricks left} = 2,863
 \end{array}$$

$$\begin{array}{r}
 8. \text{ Greater number} = 87732 \\
 \text{Difference between numbers} = -35708 \\
 \hline
 \text{Smaller number} = 52024 \\
 \text{Smaller number} = 52024 \\
 \text{Greater number} = + 87732 \\
 \hline
 \text{Sum} = 139756
 \end{array}$$

$$\begin{array}{r}
 9. \text{ Number of votes received by 1}^{\text{st}} \text{ candidate} = 89278 \\
 \text{Number of votes received by 2}^{\text{nd}} \text{ candidate} = 34967 \\
 \text{Number of votes received by 3}^{\text{rd}} \text{ candidate} = 8247 \\
 \text{Number of votes received by 4}^{\text{th}} \text{ candidate} = 976 \\
 \text{Number of invalid votes} = +1984 \\
 \hline
 \text{Total number of votes cast} = 135452
 \end{array}$$

$$\begin{array}{r}
 10. \text{ Price of a car} = ₹ 486798 \\
 \text{Price of a van} = - ₹ 300980 \\
 \hline
 \text{Thus, car costs more by amount} = ₹ 1,85,818
 \end{array}$$

$$11. \text{ Length of cable used: } 9845 \text{ m and } 7834 \text{ m.}$$

$$\begin{array}{r}
 9845 \text{ m} \\
 +7834 \text{ m} \\
 \hline
 17679 \text{ m}
 \end{array}$$

$$\text{Thus, total length of cable used} = 17,679 \text{ m}$$

$$\text{Total length of cable} = 40000 \text{ m}$$

$$\text{Length of cable used} = \underline{- 17679 \text{ m}}$$

$$\text{So, remaining length of cable} = \underline{22321 \text{ m}}$$

$$12. \text{ Quantity of milk supplied to 1}^{\text{st}} \text{ town} = 34890 \text{ litres}$$

$$\text{Quantity of milk supplied to 2}^{\text{nd}} \text{ town} = \underline{+14785 \text{ litres}}$$

$$\text{Total quantity of milk supplied} = \underline{49675 \text{ litres}}$$

$$\text{Total quantity of milk produced by dairy} = 83500 \text{ litres}$$

$$\text{Total quantity of milk supplied} = \underline{-49675 \text{ litres}}$$

$$\text{Remaining quantity of milk} = \underline{33825 \text{ litres}}$$

Review Time

$$1. (a) \text{ The required number} = 28630 + 700 = 29330$$

$$(b) \text{ The required number} = 10387 - 300 = 10087$$

$$2. \text{ According to question, } 50000 - \text{Number} = 37261$$

$$\text{Thus, required number} = 50000 - 37261 = 12739$$

$$3. (a) \begin{array}{r} 24753 \\ 15632 \\ + 23524 \\ \hline 63909 \end{array}$$

$$(b) \begin{array}{r} 156323 \\ 23456 \\ + 1352 \\ \hline 181131 \end{array}$$

$$4. (a) \begin{array}{r} 873613 \\ - 5170 \\ \hline 868443 \end{array}$$

$$(b) \begin{array}{r} 700000 \\ - 57238 \\ \hline 642762 \end{array}$$

$$5. (a) 453641$$

$$(b) 245689$$

$$(c) 25568$$

$$(d) 89635$$