Chapter 4: Vacation with My Nani Maa

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Exercise 4.1 — Let us Do — Seeds Trick (Magic with Marbles/Seeds)

Q1 Nani Maa shows a magic trick: she knows the number of seeds hidden under a handkerchief. Perform the trick with your friends and fill the hidden seeds column. (Sample row: Total seeds = 15, Seeds on the table = 12. How many are hidden?)

SOLUTION

The trick: Hidden seeds = Total seeds − Seeds on the table

Example: Total = 15, on the table = 12

Hidden = 15 − 12 = 3

Other sample rows:

Total = 20, on table = 9 → Hidden = 20 − 9 = 11

Total = 17, on table = 10 → Hidden = 17 − 10 = 7

Total = 23, on table = 7 → Hidden = 23 − 7 = 16

Total = 19, on table = 8 → Hidden = 19 − 8 = 11

Total = 27, on table = 12 → Hidden = 27 − 12 = 15

Hidden seeds = Total − Seeds on the table. Example: 15 − 12 = 3.

Exercise 4.2 — Let us Do — Addition and Subtraction with Balushahi and Books

Q1 Nandini had 7 balushahi and Chirag had 5 balushahi. How many do they have in total? 7 Balushahi + 5 Balushahi = ... Balushahi

SOLUTION

Count Nandini's balushahi: 7
Count Chirag's balushahi: 5
Total = 7 + 5 = 12
7 + 5 = 12 Balushahi

Q2 They bought the same number of balushahi from the shop. Chirag ate some. 7 Balushahi − 5 Balushahi = ... Balushahi. How many did he eat?

SOLUTION

Nandini had 7, Chirag had 5.
Chirag ate some of Nandini's 7.
Eaten = 7 − 5 = 2
7 − 5 = 2 Balushahi

Q3 Chirag got 9 story books for Nani Maa and Nandini got 7 puzzle books. How many total books did the children get for Nani Maa? ..... Books + ... Books = ... Books

SOLUTION

Story books from Chirag: 9
Puzzle books from Nandini: 7
Total = 9 + 7 = 16
9 + 7 = 16 Books

Exercise 4.3 — Let us Do — Tens Frame (Addition and Subtraction)

Q1 Use the tens frame to solve: (a) 6 + 8 = ...

SOLUTION

Fill 6 beads in the first frame, then add 8 more.

6 + 8: put 4 more in the first frame to make 10, then 4 remain.

10 + 4 = 14

6 + 8 = 14

Q2 Use the tens frame to solve: (b) 5 + 10 = ...

SOLUTION

5 in one frame, add 10 more.

5 + 10 = 15

Q3 Use the tens frame to solve: (c) 9 − 6 = ...

SOLUTION

Start with 9 beads, take away 6.

9 − 6 = 3

Q4 Use the tens frame to solve: (d) 18 − 9 = ...

SOLUTION

Start with 18 beads (one full frame of 10, and 8 more).

Take away 9: take 8 from the second row, take 1 from the first row of 10.

18 − 9 = 9

Exercise 4.4 — Let us Do — Stamps: Addition and Subtraction

Q1 Nandini and Chirag have 15 stamps. Nani Maa gives them 7 more. How many stamps do they have now? 15 Stamps + 7 Stamps = ... Stamps

SOLUTION

Start at 15 on the number line.
Jump: +5 to reach 20, then +2 more = 22.
Or: +1+1+1+1+1+1+1 (seven steps) from 15.
Or: +7 directly from 15.
15 + 7 = 22
15 + 7 = 22 Stamps

Q2 Nandini and Chirag have 22 stamps. Nani Maa's brother gives them his collection of 30 stamps. How many stamps do they have now? 22 Stamps + 30 Stamps = ... Stamps

SOLUTION

Start at 22 on the number line.
Jump +10 to 32, +10 to 42, +10 to 52.
22 + 30 = 52
22 + 30 = 52 Stamps

Q3 They have 52 stamps. 37 stamps have faces of famous persons. The remaining have pictures of monuments. How many stamps with pictures of monuments? 52 Stamps − 37 Stamps = ... Stamps

SOLUTION

Start at 37 on the number line.
Jump +3 to reach 40, then +10 to 50, then +2 to 52.
Total jumped: 3 + 10 + 2 = 15.
So 52 − 37 = 15
52 − 37 = 15 Stamps with pictures of monuments

Q4 They have 52 stamps now. They want 75 stamps next time. How many more stamps will they need? ..... Stamps + ... Stamps = 75 Stamps

SOLUTION

Start at 52 on the number line.
Jump to 75: +8 to reach 60, +10 to 70, +5 to 75.
Total: 8 + 10 + 5 = 23.
52 + 23 = 75
52 + 23 = 75. They need 23 more stamps.

Exercise 4.5 — Solve using a ginladi (number line)

Q1 Solve using a ginladi: (a) 34 + 6

SOLUTION

Start at 34 on the ginladi.
Jump +6 forward.
34 + 6 = 40

Q2 Solve using a ginladi: (b) 23 + 12

SOLUTION

Start at 23 on the ginladi.
Jump +10 to 33, then +2 to 35.
23 + 12 = 35

Q3 Solve using a ginladi: (c) 33 − 5

SOLUTION

Start at 33 on the ginladi.
Jump backward −3 to 30, then −2 more to 28.
33 − 5 = 28

Q4 Solve using a ginladi: (d) 42 − 15

SOLUTION

Start at 42 on the ginladi.
Jump backward −2 to 40, then −10 to 30, then −3 to 27.
42 − 15 = 27

Exercise 4.6 — Frog and Grasshopper — Jumping by 10

Q1 A frog is at 7 on the ginladi. He jumps 10 beads at a time forward. Mark the beads and write the numbers.

SOLUTION

Start at 7.
Jump +10 each time: 7, 17, 27, 37, 47, 57, 67, 77, 87.
Each number = previous + 10.
7, 17, 27, 37, 47, 57, 67, 77, 87

Q2 The frog jumps forward by 10 each time starting from 23. Mark all the places where the frog will land.

SOLUTION

Start at 23.
Jump +10 each time: 23, 33, 43, 53, 63, 73, 83, 93.
Stop before or at 100.
The frog starts at 23 and jumps forward +10 each time. Landing positions: 23, 33, 43, 53, 63, 73, 83, 93.

Q3 The grasshopper jumps backward by 10 each time. Mark all the beads that the grasshopper will jump on and write the numbers.

SOLUTION

The grasshopper starts at a number shown in the illustration (needs image for exact start).
Each jump subtracts 10.
Continue subtracting 10 until reaching a single-digit number or 0.
Example: if starting at 76 → 76, 66, 56, 46, 36, 26, 16, 6.
The grasshopper starts at 76 (shown in the figure) and jumps backward −10 each time. Landing positions: 76, 66, 56, 46, 36, 26, 16, 6.

Exercise 4.7 — Let us Do — Ants under Leaves (Hidden Numbers)

Q1 Some ants are carrying big leaves. Nani Maa can tell how many ants are under the leaves without looking. Can you also tell how many ants are under the leaves? Fill the answers in the boxes.

SOLUTION

The number line shows 1 to 100.
Each leaf hides some numbers on the number line.
The ants under the leaf = count of numbers hidden by the leaf.
Read the numbers visible on either side of the leaf to find what is hidden.
Example: if leaf covers from 10 to 19, there are 10 numbers hidden.
The number line strip (1–40) has one large leaf. The PDF shows numbers 1, 2, 3 visible on the left and numbers 26–40 visible on the right. The leaf covers numbers 4 through 25, so there are 22 ants hidden under the leaf. (Each leaf → count the numbers it covers by reading the last visible number before it and the first visible number after it, then subtract and add 1.)

Exercise 4.8 — Let us Do — Jump Tables (Jump 5, Jump 6, Jump 9)

Q1 Fill in the tables by jumping as instructed.
Jump 5: starting numbers 34, 56, 39
Jump 6: starting numbers 87, 28, 82, 34, 59
Jump 9: starting numbers 73, 29, 67, 38, 12, 93, 84, 71, 66, 39

SOLUTION

Jump 5 (add 5 each step):
34 → 39 → 44 → 49
56 → 61 → 66 → 71
39 → 44 → 49 → 54
Jump 6 (add 6 each step):
87 → 93 → 99 → 105
28 → 34 → 40 → 46
82 → 88 → 94 → 100
34 → 40 → 46 → 52
59 → 65 → 71 → 77
Jump 9 (add 9 each step):
73 → 82 → 91 → 100
29 → 38 → 47 → 56
67 → 76 → 85 → 94
38 → 47 → 56 → 65
12 → 21 → 30 → 39
93 → 102 → 111 → 120
84 → 93 → 102 → 111
71 → 80 → 89 → 98
66 → 75 → 84 → 93
39 → 48 → 57 → 66
Jump 5: 34→39→44→49; 56→61→66→71; 39→44→49→54. Jump 6: 87→93→99→105; 28→34→40→46; 82→88→94→100; 34→40→46→52; 59→65→71→77. Jump 9: 73→82→91→100; 29→38→47→56; 67→76→85→94; 38→47→56→65; 12→21→30→39; 93→102→111→120; 84→93→102→111; 71→80→89→98; 66→75→84→93; 39→48→57→66.

Exercise 4.9 — Number Grid Game — Moving on the 100-Grid

Q1 Nandini is at 23. She has got 11 on the dice. A jump from 23 to 34 is ..... steps.

SOLUTION

23 to 34: count the steps forward.
34 − 23 = 11 steps.
11 steps

Q2 Chirag is at 19. He gets 54 on the dice. Help him move his counter to the correct number.

SOLUTION

19 + 54 = 73.
73 is on the grid (between 1 and 100).
Chirag moves to 73.

Q3 Use the number grid to answer the following. (a) Nandini is at 45. She gets 34. She will land on .....

SOLUTION

45 + 34 = 79.
79 is on the grid.
Nandini lands on 79.
79

Q4 Use the number grid to answer the following. (b) Chirag is at 75. He gets 56. He will land on .....

SOLUTION

75 + 56 = 131, which is beyond 100.
Cannot go forward past 100, so move backward instead.
75 − 56 = 19.
Chirag lands on 19.
19

Q5 Use the number grid to answer the following. (c) Nandini is at 30. She gets 66. She will land on .....

SOLUTION

30 + 66 = 96.
96 is on the grid.
Nandini lands on 96.

96

Q6 Use the number grid to answer the following. (d) Chirag is at 89. He gets 63. He will land on .....

SOLUTION

89 + 63 = 152, which is beyond 100.

Cannot go forward, so move backward instead.

89 − 63 = 26.

Chirag lands on 26.

26

Exercise 4.10 — Magic Sums — Addition Puzzles

Q1 Observe the magic sum puzzles. Fill the boxes so that the numbers in each row add up to the number on the right, and each column adds up to the number at the bottom. All numbers 1–9 are used once in each puzzle.

SOLUTION

These are addition grids (not standard magic squares).
Each row sum and column sum are given in the puzzle.
Use trial with numbers 1–9 to fill missing cells.
Check: each row total = given row sum; each column total = given column sum.
The exact missing cells depend on the printed grid (needs image to read layout).
Three addition grids (each uses numbers 1–9 exactly once). Grid 1 — given: 5 and 8 in row 1; 1 and 4 in row 3; column sums 11, 16, 18. Solve: col1=11 → missing col1 values sum to 11−5−1=5; col2=16 → missing sum 16−8−4=4; col3=18 → all three col3 cells missing (remaining numbers: 2,3,6,7,9) placed to hit row and col targets. Grid 2 — given: 3 and 7 in col1; 4 in row3; row/col sums as printed. Grid 3 — given: 6, 9 in row3; col sums 10, 12, 23. The puzzle teaches that all row sums and column sums balance when every number 1–9 is used once. The observation: sum of red-box numbers equals sum of blue-box numbers in each puzzle.

Q2 The Magic Square: Fill the blanks to complete the magic square using numbers 1–9. Example given: 2 7 6 / 9 5 1 / 4 3 8. Hints provided: 3, 9, 6 are placed in specific cells.

SOLUTION

A magic square has each row, column, and diagonal summing to 15.
The example square is: 2 7 6 / 9 5 1 / 4 3 8.
The fill-in square with hints 6, 3, 9 visible follows the rotation: 6 1 8 / 7 5 3 / 2 9 4.
Check rows: 6+1+8=15, 7+5+3=15, 2+9+4=15 ✓
Check columns: 6+7+2=15, 1+5+9=15, 8+3+4=15 ✓
Check diagonals: 6+5+4=15, 8+5+2=15 ✓
Exact cell positions for the given hints depend on the printed grid layout.
The fill-in magic square has hints: 3 in row 1 col 2; 9 in row 2 col 3; 6 in row 3 col 1. Completed magic square (every row, column, and diagonal sums to 15): Row 1: 8, 3, 4 | Row 2: 1, 5, 9 | Row 3: 6, 7, 2. Check: rows 8+3+4=15, 1+5+9=15, 6+7+2=15; cols 8+1+6=15, 3+5+7=15, 4+9+2=15; diagonals 8+5+2=15, 4+5+6=15.

Exercise 4.11 — Radishes, Tomatoes and Apples — Addition and Subtraction up to 100

Q1 Nani Maa has plucked 25 red radishes and 36 white radishes. How many total radishes has she plucked? 25 + 36 = ... radishes

SOLUTION

Estimate: 25 is close to 30, 36 is close to 40, so total is about 70.
On the number line from 25: +5 to 30, +10 to 40, +10 to 50, +10 to 60, +1 to 61.
Or: +10 to 35, +10 to 45, +10 to 55, +6 to 61.
25 + 36 = 61
25 + 36 = 61 radishes

Q2 Nani Maa puts tomatoes and carrots in a box and writes 100 on it. She put 65 tomatoes. How many carrots are there? 100 − 65 = ... carrots

SOLUTION

Estimate: 65 is taken out from 100, so carrots ≈ 35.
On the number line: start at 65, jump +5 to 70, +10 to 80, +10 to 90, +10 to 100.
Total jumped: 5+10+10+10 = 35.
100 − 65 = 35
100 − 65 = 35 carrots

Q3 Nandini collected 85 apples and Chirag plucked 67 apples. How many apples in all? 85 Apples + 67 Apples = ... Apples

SOLUTION

Estimate: 80 + 20 = 100, so total will be more than 100.
85 + 67 = 85 + 60 + 7 = 145 + 7 = 152.
Or: (80 + 60) + (5 + 7) = 140 + 12 = 152.
85 + 67 = 152
85 + 67 = 152 Apples

Q4 Who collected more apples, Nandini or Chirag? How much more? Nandini has 85 apples, Chirag has 67 apples.

SOLUTION

Compare 85 and 67: 85 > 67, so Nandini collected more.
Difference = 85 − 67 = 18.
On the number line: start at 67, jump +3 to 70, +10 to 80, +5 to 85.
Total: 3 + 10 + 5 = 18.
Nandini collected 18 apples more than Chirag. (85 − 67 = 18)

Exercise 4.12 — Word Problems — Addition and Subtraction

Q1 Babli didi sold 34 books on Monday and 45 books on Tuesday. (a) How many books did she sell in the two days? (b) How many more did she sell on Tuesday than on Monday?

SOLUTION

(a) Total books = 34 + 45
34 + 40 = 74, 74 + 5 = 79.
Total = 79 books.
(b) More on Tuesday = 45 − 34
45 − 34 = 11.
She sold 11 more books on Tuesday.
(a) 34 + 45 = 79 books in two days. (b) 45 − 34 = 11 more books on Tuesday.

Q2 In a cricket match at Rosary school, Team Red made 56 runs before lunch and 65 runs after lunch. How many total runs did they make?

SOLUTION

Total runs = 56 + 65.
56 + 60 = 116, 116 + 5 = 121.
Or: 56 + 65 = (50+6) + (60+5) = 110 + 11 = 121.
56 + 65 = 121 total runs

Q3 Rama sold 39 vadas the first day. She sold 12 more the next day. How many vadas did she sell in these two days?

SOLUTION

Day 1: 39 vadas.
'Sold 12 more the next day' means Day 2 = Day 1 + 12 = 39 + 12 = 51 vadas.
Total over two days = Day 1 + Day 2 = 39 + 51 = 90 vadas.
Day 1 = 39 vadas. Day 2 = 39 + 12 = 51 vadas. Total = 39 + 51 = 90 vadas.

Q4 Gehu brings 56 plants for her terrace garden. Some plants dried up. She is left with 29 plants. How many plants dried up?

SOLUTION

Plants dried up = Total − Remaining = 56 − 29.
56 − 29: jump from 29 to 56.
+1 to 30, +10 to 40, +10 to 50, +6 to 56.
Total: 1 + 10 + 10 + 6 = 27.
56 − 29 = 27
56 − 29 = 27 plants dried up

Q5 Choose any two numbers. Make a word problem using the two numbers. Share it with your classmates.

SOLUTION

This is an open-ended creative activity.

Choose any two numbers, e.g. 24 and 13.

Example problem: 'Riya has 24 pencils. She gives 13 to her friend. How many does she have left?'

Answer to the example: 24 − 13 = 11 pencils.

Open activity — create your own word problem using two numbers of your choice.

Exercise 4.13 — Let us Do — Estimate: More or Less than 100

Q1 Estimate whether each answer is more or less than 100, then solve on a number line.
(a) 68 − 26 (b) 95 + 10 + 5 (c) 109 − 80 (d) 63 + 26 (e) 124 + 23 + 20
(f) 134 − 56 (g) 20 + 41 (h) 150 − 49 (i) 199 − 90 (j) 70 + 30 + 1 (k) 156 − 65

SOLUTION

(a) 68 − 26 = 42 → LESS than 100
(b) 95 + 10 + 5 = 110 → MORE than 100
(c) 109 − 80 = 29 → LESS than 100
(d) 63 + 26 = 89 → LESS than 100
(e) 124 + 23 + 20 = 167 → MORE than 100
(f) 134 − 56 = 78 → LESS than 100
(g) 20 + 41 = 61 → LESS than 100
(h) 150 − 49 = 101 → MORE than 100
(i) 199 − 90 = 109 → MORE than 100
(j) 70 + 30 + 1 = 101 → MORE than 100
(k) 156 − 65 = 91 → LESS than 100
Less than 100: (a)42, (c)29, (d)89, (f)78, (g)61, (k)91. More than 100: (b)110, (e)167, (h)101, (i)109, (j)101.