

# MathStep

1

***Teacher's  
Resource Book***

For Order : 0320-5899031

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### Chapter 1: A Day at the Aquarium

Count and Color (Page No. 9 – 11)

Count the animals and write in the given space.

- 1 = One
- 2 = Two



- 3 = Three
- 4 = Four
- 5 = Five
- 6 = Six

- 7 = Seven
- 8 = Eight
- 9 = Nine
- 10 = Ten

**Count and Write (Page No. 12)**

- 2
- 7
- 5
- 3
- 8

**Count and Write (Page No. 13)**

- 3 10 6 5 3 7
- 4 3 2 3 3 1

**The number Zero (Page no. 14)**

- 0
- Zero

**Counting Backwards (Page No. 15)**

- Ten
- Nine
- Eight
- Seven
- Six
- Five
- Four
- Three
- Two
- One
- Zero

**Ascending Numbers (Page No. 16)**

Y	0	1	2	1	7
No it is not in Ascending Order	2	3	3	5	8
Y	5	6	7	8	9

**Descending Numbers (Page No. 17)**

Y	9	7	5	5	6
No it is not in Descending Order	5	4	4	3	2
Y	2	3	3	2	1

**Greater and Lesser Numbers (Page No. 18 – 19)**

- $2 > 1$
- $1 < 2$
- $8 > 7$
- $7 < 8$
- $5 > 3$
- $3 < 5$



- $4 > 2$
- $2 < 4$
- $9 > 6$
- $6 < 9$
- $7 > 5$
- $5 < 7$

### Number Position: Ordinal Numbers (Page No. 20)

1 <sup>st</sup>	First	○
2 <sup>nd</sup>	Second	○ ○
3 <sup>rd</sup>	Third	○ ○ ○
4 <sup>th</sup>	Fourth	○ ○ ○ ○
5 <sup>th</sup>	Fifth	○ ○ ○ ○ ○
6 <sup>th</sup>	Sixth	○ ○ ○ ○ ○ ○
7 <sup>th</sup>	Seventh	○ ○ ○ ○ ○ ○ ○
8 <sup>th</sup>	Eighth	○ ○ ○ ○ ○ ○ ○ ○
9 <sup>th</sup>	Ninth	○ ○ ○ ○ ○ ○ ○ ○ ○
10 <sup>th</sup>	Tenth	○ ○ ○ ○ ○ ○ ○ ○ ○ ○

### Number Position: Ordinal Numbers (Page No. 21) (Alphabets of English Language Exercise)

- |              |               |
|--------------|---------------|
| • F = Sixth  | • E = Fifth   |
| • C = Third  | • I = Ninth   |
| • H = Eighth | • B = Second  |
| • J = Tenth  | • G = Seventh |
| • A = First  | • D = Fourth  |

### Bowl Exercise

- \_\_\_\_\_
- \_\_\_\_\_
- Shark
- Orca
- Dolphin



- \_\_\_\_\_
- Sea Lion
- \_\_\_\_\_

### Children Exercise

- Second                      Fourth                      Sixth                      Eighth

### Wagon Exercise

- First, Second, Third, Fourth, Fifth, Sixth, Seventh, Eighth, Ninth, Tenth

### Count and Color (Page No. 24 – 25)

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• 10 and 3 make 13<br/>10 + 3 = 13<br/>Thirteen</li> <li>• 10 and 5 make 15<br/>10 + 5 = 15<br/>Fifteen</li> <li>• 10 and 8 make 18<br/>10 + 8 = 18<br/>Eighteen</li> </ul> | <ul style="list-style-type: none"> <li>• 10 and 1 make 11<br/>10 + 1 = 11<br/>Eleven</li> <li>• 10 and 6 make 16<br/>10 + 6 = 16<br/>Sixteen</li> <li>• 10 and 9 make 19<br/>10 + 9 = 19<br/>Nineteen</li> </ul> |
|--|--|

### Early, Later and Between Numbers (Page No. 26)

#### Fill between numbers

14                      18  
11                      15

#### Fill early Numbers

15                      17  
11                      14

#### Fill later numbers

17                      20  
15                      13

### Counting Backwards (Page No. 27) Write numbers in words

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Twenty</li> <li>• Nineteen</li> <li>• Eighteen</li> <li>• Seventeen</li> <li>• Sixteen</li> </ul> | <ul style="list-style-type: none"> <li>• Fifteen</li> <li>• Fourteen</li> <li>• Thirteen</li> <li>• Twelve</li> <li>• Eleven</li> </ul> |
|--|---|



**Greater and Lesser Numbers (Page No. 28)**

- School A = 8
- School B = 12
- School C = 16
- Largest = School C
- Smallest = School A
- In – Between = School B

**Greater and Lesser Numbers (Page No. 29)**

- Tank A = Numbers: 16, Position: Third
- Tank B = Numbers: 18, Position: First
- Tank C = Numbers: 17, Position: Second

- Number of Fish in Tank B is greater than in Tank A and C
- Number of Fish in Tank A is lesser than in Tank B and C

- Bowl A = 19
- Bowl B = 11
- Bowl C = 14

- Orca = A
- Sea Lion = C
- Dolphin = B

**Number Line and Skip Counting (Page No. 30)**

- 0 2 4 6 8 10 12 14 16 18 20 and so on
- 0 3 6 9 12 15 18 and so on
- 0 4 8 12 16 20 and so on

- All three dolphins hit the number 12

**Number Line and Greater and Lesser Numbers (Page No. 31)****First Skipping Counting Exercise: Dolphin Exercise**

- Dolphin A = 12
- Dolphin B = 10
- Dolphin C = 14

**Second Skipping Counting Exercise: Sea Lion Exercise**

- 6 Sea Lion now in the aquarium



**Third Skipping Counting Exercise**

- 9 Smiling Fish
- 12 Blue Fish

**Fourth Skipping Counting Exercise: Cuttle Fish Exercise**

- 9 Cuttle Fish left in the aquarium

**Understanding Tens and Ones (Page No. 32)**

- 11 Patties
- 12 Patties
- 13 Patties

**Understanding Tens and Ones (Page No. 33)**

- 14 Patties
- 15 Patties
- 16 Patties

**Understanding Tens and Ones (Page No. 34)**

- 17 Patties
- 18 Patties
- 19 Patties

**Understanding Tens and Ones (Page No. 35)**

- 20 Patties = Twenty

**Circle the number of fish according to the numbers given below**

- 17 Fishes = Seventeen
- 13 Fishes = Thirteen
- 20 Fishes = Twenty

**Chapter 2: A Visit to the Supermarket****What is addition? (Page No. 37)**

- $1 + 1 = 2$
- $2 + 1 = 3$
- $3 + 1 = 4$
- $4 + 1 = 5$
- $5 + 1 = 6$
- $6 + 1 = 7$





$7 + 1 = 8$

$8 + 1 = 9$

$9 + 1 = 10$

**Adding by Counting All (Page No. 38 – 39)****Preparing List for shopping**

- Soap = 5 (as done in text book)
- Show Polish = 6 ( $2 + 4 = 6$  and  $4 + 2 = 6$ )
- Shampoo = 3 ( $1 + 2 = 3$  and  $2 + 1 = 3$ )
- Dish Washer = 4 ( $4 + 0 = 4$  and  $0 + 4 = 4$ )
- Cold drink and Juice = 10 ( $6 + 4 = 10$  and  $4 + 6 = 10$ )
- Shaving Razor and Shaving Foam = 7 ( $2 + 5 = 7$  and  $5 + 2 = 7$ )
- Chips = 8 ( $5 + 3 = 8$  and  $3 + 5 = 8$ )
- Phenyl and Cleaner = 8 ( $4 + 4 = 8$ )
- Pens = 10 ( $3 + 7 = 10$  and  $7 + 3 = 10$ )

**Adding by Counting on using Number line (Page No. 40)**

Buying items at the supermarket stationary sections

- $2 + 3 = 5$
- $3 + 4 = 7$
- $4 + 5 = 9$
- $4 + 0 = 4$

**Adding by Counting On using hands (Page No. 41)**

Buying items at the confectionary section

- $3 + 2 = 5$
- $4 + 5 = 9$
- $3 + 7 = 10$
- $4 + 4 = 8$
- $6 + 3 = 9$

**Adding by Counting on using Number Line (Page No. 42)**

Buying items at the Candy Section

- $13 + 7 = 20$
- $12 + 6 = 18$
- $13 + 7 = 20$
- $8 + 7 = 15$

**Adding by Counting on using Number Line (Page No. 43)**

Buying items at the Snacks section

- $9 + 6 = 15$



- $7 + 10 = 17$
- $14 + 5 = 19$
- $7 + 6 = 13$
- $4 + 9 = 13$

### Adding mentally using Addition Properties (Page No. 46)

#### Zero property

- $3 + 0 = 3$
- $6 + 0 = 6$

### Adding mentally by making 10 (Page No. 49)

#### Buying items at the fashion accessories section

$$9 + 7$$

$$9 + 1 + 6$$

$$10 + 6$$

$$16$$

$$3 + 11$$

$$3 + 7 + 4$$

$$10 + 4$$

$$14$$

$$5 + 13$$

$$5 + 5 + 8$$

$$10 + 8$$

$$18$$

### Doing Additions using Addition Facts (Page No. 50)

- 11 battery Cells
- 9 Sprays
- 13 Tights
- 17 Copies

### Learning to add vertically (Page No. 51)

Solve the following problems by adding vertically

$\begin{array}{r} 9 \\ + 2 \\ \hline 11 \end{array}$	$\begin{array}{r} 3 \\ + 4 \\ \hline 7 \end{array}$	$\begin{array}{r} 6 \\ + 1 \\ \hline 7 \end{array}$	$\begin{array}{r} 2 \\ + 5 \\ \hline 7 \end{array}$	$\begin{array}{r} 4 \\ + 8 \\ \hline 12 \end{array}$
--	---	---	---	--

Now solve the other given problems (Page No. 51)



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

**Adding 3 addends (Page No. 52)****Buying items at the anaaj section**

- $5 + 12 + 2 = 19$

- $2 + 5 + 12 = 19$

$$\begin{array}{r} 2 \\ 1\ 2 \\ +\ 5 \\ \hline 1\ 9 \end{array}$$

- $4 + 7 + 3 = 14$

- $3 + 4 + 7 = 14$

$$\begin{array}{r} 3 \\ 7 \\ +\ 4 \\ \hline 1\ 4 \end{array}$$

- $7 + 11 + 1 = 19$

- $1 + 7 + 11 = 19$

$$\begin{array}{r} 1 \\ 1\ 1 \\ +\ 7 \\ \hline 1\ 9 \end{array}$$

**Buying items at the pasta section (Page No. 53)**

$10 + 3 + 4 = 17$

$4 + 10 + 3 = 17$

$$\begin{array}{r} 4 \\ 1\ 0 \\ +\ 3 \\ \hline 1\ 7 \end{array}$$

$8 + 4 + 2 = 14$

$2 + 8 + 4 = 14$

$$\begin{array}{r} 4 \\ 8 \\ + 2 \\ \hline 14 \end{array}$$

$$6 + 9 + 2 = 17$$

$$2 + 6 + 9 = 17$$

$$\begin{array}{r} 9 \\ 6 \\ + 2 \\ \hline 17 \end{array}$$

**Word Problems (Page No. 54 – 55)**

Write number sentence of each of the following word problems and solve.

1.  $7 + 9 = 16$

2.  $2 + 5 = 7$

3.  $5 + 2 = 7$

4.  $7 + 11 = 18$

5.  $5 + 4 = 9$

6. Asif Bought:  $4 + 5 = 9$

Sister bought:  $5 + 4 = 9$

7.  $14 + 3$

$10 + 4 + 3$

$10 + 7$

$17$

8.  $8 + 7 + 3 = 18$

9.  $5 + 8 + 6 = 19$

**Chapter 3: Spring-cleaning the Wardrobe**

(Page No. 57)

- $1 - 1 = 0$
- $2 - 1 = 1$
- $3 - 1 = 2$
- $4 - 1 = 3$
- $5 - 1 = 4$
- $6 - 1 = 5$
- $7 - 1 = 6$
- $8 - 1 = 7$
- $9 - 1 = 8$



**Subtraction by Crossing out (Page No. 58 – 59)**

- $5 - 2 = 3$
- $6 - 2 = 4$
- $3 - 1 = 2$
- $4 - 0 = 4$
- $8 - 2 = 6$
- $18 - 18 = 0$
- $8 - 5 = 3$
- $7 - 3 = 4$
- $12 - 4 = 8$

**Sorting out the Pants (Page No. 60)**

- $6 - 2 = 4$
- $8 - 4 = 4$
- $5 - 1 = 4$
- $4 - 3 = 1$
- $9 - 7 = 2$
- $3 - 3 = 0$

**Sorting out the Shirts (Page No. 61)**

Note: Students will do by their choice.

**Subtraction by Counting Back using Number Line (Page No. 62)****Sorting out the Shoes**

- $8 - 2 = 6$
- $10 - 4 = 6$
- $7 - 3 = 4$
- $9 - 5 = 4$
- $9 - 6 = 3$

**Sorting out the accessories (Page No. 63)**

- $5 - 2 = 3$
- $3 - 1 = 2$
- $4 - 3 = 1$
- $8 - 4 = 4$
- $6 - 5 = 1$

**Sorting out the ponies and catchers (Page No. 64)**

- $18 - 12 = 6$
- $12 - 11 = 1$
- $17 - 3 = 14$
- $19 - 15 = 4$
- $20 - 18 = 2$

**Sorting out the hair bands (Page No. 65)**

- $15 - 7 = 8$
- $13 - 4 = 9$
- $17 - 9 = 8$
- $11 - 5 = 6$
- $16 - 15 = 1$



- $14 - 6 = 8$

### Subtracting Using Tens and Ones (Page No. 66 – 67)

#### Sorting out the clothes

$\begin{array}{r} 14 \\ - 3 \\ \hline 11 \end{array}$	$\begin{array}{r} 17 \\ - 7 \\ \hline 10 \end{array}$	$\begin{array}{r} 10 \\ - 10 \\ \hline 0 \end{array}$	$\begin{array}{r} 19 \\ - 17 \\ \hline 2 \end{array}$	$\begin{array}{r} 11 \\ - 10 \\ \hline 1 \end{array}$
$\begin{array}{r} 16 \\ - 6 \\ \hline 10 \end{array}$	$\begin{array}{r} 18 \\ - 10 \\ \hline 8 \end{array}$	$\begin{array}{r} 13 \\ - 5 \\ \hline 8 \end{array}$	$\begin{array}{r} 12 \\ - 2 \\ \hline 10 \end{array}$	$\begin{array}{r} 15 \\ - 11 \\ \hline 4 \end{array}$

### Understanding Number Family (Page No. 69)

#### Sorting out the shoes

##### Casual Shoe Exercise

$$\begin{array}{ll} 3 + 5 = 8 & 8 - 3 = 5 \\ 5 + 3 = 8 & 8 - 5 = 3 \end{array}$$

##### Dress Shoe Exercise

$$\begin{array}{ll} 3 + 2 = 5 & 5 - 3 = 2 \\ 2 + 3 = 5 & 5 - 2 = 3 \end{array}$$

#### Complete the following Number Families

$$\begin{array}{ll} 5 + 7 = 12 & 12 - 5 = 7 \\ 7 + 5 = 12 & 12 - 7 = 5 \end{array}$$

$$\begin{array}{ll} 9 + 4 = 13 & 13 - 9 = 4 \\ 4 + 9 = 13 & 13 - 4 = 9 \end{array}$$

### Word Problems (Page No. 70 – 71)

- $6 - 2 = 4$
- $12 - 8 = 4$
- $10 - 7 = 3$
- $7 - 2 = 5$
- $19 - 12 = 7$
- 

$$\begin{array}{r} 17 \\ - 7 \\ \hline 10 \end{array}$$

7.

$$\begin{array}{r} 20 \\ - 10 \\ \hline 10 \end{array}$$

- $7 + 3 = 10$        $10 - 3 = 7$   
 $3 + 7 = 10$        $10 - 7 = 3$



9.  $8 + 7 = 15$

$15 - 8 = 7$

$7 + 8 = 15$

$15 - 7 = 8$

**Draw shapes, write names and colour (Page No. 74)**

Do as directed

**Draw shapes, write names and colour (Page No. 75)**

Do as directed

## Chapter 4: Shapes and Pattern in Life

**Recognize Shapes in Real Life (Page No. 76)**

Circle	4	Chandeliers, Wheel, Rear Light, Exhaust
Triangle	4	Building, Road Stopper, Lamp, Flowers
Square	3	Beds, Table, and Mirror
Rectangle	9	Windows, Drawer, Blanket, Pillow, Car Body, Couch, Door, Frames, Table

**Developing Spatial Sense (Page No. 80)****Right and Left**

- Doggie is on the Left
- Cat is on the Right
- Pencil is on the Left
- Boy is on the Right
- Horse is on the Left
- Girl is on the Right

**Before and After (Page No. 80)**

- Doggie is before the girl
- Girl is after the Doggie

**Over and Under (Page No. 81)**

- Mirror is over the table
- Basket is under the table

**Above and Below (Page No. 81)**

- Monkey is above the children
- Children are below the monkey



**Far and Near (Page No. 81)**

- The yacht is far
- The umbrella is near

**Chapter No. 5: Asif Teaches Big Numbers****Counting Number 21 – 100 (Page No. 83 – 86)**

21	48	75
22	49	76
23	50	77
24	51	78
25	52	79
26	53	80
27	54	81
28	55	82
29	56	83
30	57	84
31	58	85
32	59	86
33	60	87
34	61	88
35	62	89
36	63	90
37	64	91
38	65	92
39	66	93
40	67	94
41	68	95
42	69	96
43	70	97
44	71	98
45	72	99
46	73	100
47	74	

**Recalling the Numbers to 100 (Page No. 87)**

Complete the number strings in the following boxes

- 7      8      9      10      11      12      13
- 56      57      58      59      60      61      62
- 24      25      26      27      28      29      30





- 88      89    90    91    92    93    94
- 35      36    37    38    39    40    41
- 19      20    21    22    23    24    25
- 77      78    79    80    81    82    83

**Counting in Tens (Page No. 89)**

Red Bricks	Sharpener	Pencils
4 Tens	6 Tens	8 Tens
40	60	80
Forty	Sixty	Eighty

**Counting in Tens and Ones (Page No. 90)**

- 80 = Eight 10 + 0      Eighty
- 42 = Four 10 + 2      Forty Two
- 37 = Three 10 + 7      Thirty Seven
- 19 = One 10 + 9      Nineteen
- 54 = Five 10 + 4      Fifty Four
- 11 = One 10 + 1      Eleven
- 26 = Two 10 + 6      Twenty Six
- 77 = Seven 10 + 7      Seventy Seven
- 31 = Three 10 + 1      Thirty One
- 65 = Six 10 + 5      Sixty Five

**Counting in Tens and Ones (Page No. 91)**

- 22 = Two 10 + 2      Twenty Two
- 58 = Five 10 + 8      Fifty Eight
- 61 = Six 10 + 1      Sixty One
- 75 = Seven 10 + 5      Seventy Five
- 99 = Nine 10 + 9      Ninety Nine
- 30 = Three 10 + 0      Thirty
- 47 = Four 10 + 7      Forty Seven
- 89 = Eight 10 + 9      Eighty Nine
- 91 = Nine 10 + 1      Ninety One
- 29 = Two 10 + 9      Twenty Nine

**Order Number up to 100 (Page No. 92)****Ascending Order**

**Put the following number strings in ascending order**

- |                    |                    |
|--------------------|--------------------|
| 22, 31, 33, 47, 52 | 12, 20, 41, 78, 88 |
| 7, 19, 62, 65, 96  | 5, 9, 15, 18, 23   |
| 13, 39, 55, 73, 81 | 27, 45, 67, 73, 81 |



**Descending Order****Put the following number strings in descending order**

56, 41, 13, 5, 2	93, 91, 32, 25, 14
87, 81, 74, 37, 26	76, 25, 21, 18, 17
69, 54, 51, 44, 37	86, 65, 62, 38, 23

**Compare Numbers up to 100 (Page No. 93)****Greater and Lesser Numbers****Put the greater (<) or lesser (>) sign where appropriate**

<	<	>	>
>	<	>	>
<	<	>	>
>	<	>	<

**Biggest and Smallest Numbers****Write the biggest and smallest number of each string in the given boxes**

13    11    16    9    14

Biggest: 16

Smallest: 9

22    35    17    21    33

Biggest: 35

Smallest: 17

81    77    66    61    73

Biggest: 81

Smallest: 61

51    91    98    52    49

Biggest: 98

Smallest: 49

99    89    79    69    59

Biggest: 99

Smallest: 59

41    75    71    46    43

Biggest: 75

Smallest: 41

**Identifying Number Patterns (Page No. 94)**

- 110

Note: The Numbers are increasing by +11



- 50  
Note: The Numbers are increasing by +5
- 01  
Note: The Numbers are decreasing by -11
- 6  
Note: The Numbers are decreasing by -6
- 4  
Note: The Numbers are decreasing by -4
- 0  
Note: The Numbers are decreasing by -2
- 32  
Note: The Numbers are increasing by multiply by 2 or doubling

### Identifying Number Patterns (Page No. 95)

- 26  
Note: The Numbers in this string are increasing in this manner  
11 (+1=)   12 (+2=)   14 (+3=)   17 (+4=)   21 (+5=)   26
- 10  
Note: The Numbers in this string are decreasing in this manner  
25 (-1=)   24 (-2=)   22 (-3=)   19 (-4=)   15 (-5=)   10
- 52  
Note: The Numbers are increasing by +9
- 1  
Note: The Numbers are decreasing by -2
- 60  
Note: The Numbers are increasing by +11
- 15      30      45      60      75      \_\_\_\_\_  
90  
Note: The Numbers are increasing by 15
- 96  
Note: The Numbers are increasing by doubling

## Chapter 6: Taking Stock of the Library

### Adding without Carrying (Page No. 98)

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



### Adding with carrying (Page No. 100)

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

### Mentally Adding with Carrying (Page No. 101)

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

### Word Problems (Page No. 102 – 103)

1.

New books		3
Old books	+	$\begin{array}{r} 1 \ 1 \\ \hline \end{array}$
Total books		$\begin{array}{r} 1 \ 4 \\ \hline \end{array}$

2.

Mother bought		5
Old collection	+	$\begin{array}{r} 1 \ 3 \\ \hline \end{array}$
Total books		$\begin{array}{r} 1 \ 8 \\ \hline \end{array}$

3.

Asif bought		6
Old collection	+	$\begin{array}{r} 2 \ 2 \\ \hline \end{array}$
Total books		$\begin{array}{r} 2 \ 8 \\ \hline \end{array}$

Story books		2 \ 7
-------------	--	-------





2. Left  $\begin{array}{r} \underline{30} \end{array}$

3. Good cars 6 0  
 Poor cars - 3 0  
 Left  $\begin{array}{r} \underline{30} \end{array}$

4. Total jets 7 8  
 Discarded - 4  
 Left  $\begin{array}{r} \underline{74} \end{array}$

5. Total dresses 5 9  
 Discarded - 8  
 Left  $\begin{array}{r} \underline{51} \end{array}$

6. Total parts 4 4  
 Missing parts - 1 4  
 Remaining  $\begin{array}{r} \underline{30} \end{array}$

7. Total figures 3 7  
 Poor - 3 2  
 Remaining  $\begin{array}{r} \underline{5} \end{array}$

8. Total parts 8 8  
 Not working - 1 1  
 Working parts  $\begin{array}{r} \underline{77} \end{array}$

9. Total parts 6 5  
 Worn - 2 3  
 Not worn  $\begin{array}{r} \underline{42} \end{array}$

10. Rida's bricks 7 9  
 Less of bricks that  
 Nida used - 1 9  
 Nida's bricks  $\begin{array}{r} \underline{60} \end{array}$

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### Subtracting with Borrowing (Page No. 108)

$$\begin{array}{r}
 1 \\
 \text{Total peices} \quad 4\cancel{5} \quad 1 \\
 \text{Dark force} \quad - \quad 1 \quad 9 \\
 \hline
 \text{Good people} \quad 3 \quad 2
 \end{array}$$

$$\begin{array}{r}
 1 \\
 \text{Total games} \quad 6\cancel{7} \quad 3 \\
 \text{Dark force} \quad - \quad \quad 7 \\
 \hline
 \text{Good people} \quad 3 \quad 6
 \end{array}$$

$$\begin{array}{r}
 1 \\
 \text{Total toys} \quad 2\cancel{3} \quad 5 \\
 \text{Good shaped} \quad - \quad 2 \quad 6 \\
 \hline
 \text{Poor toys} \quad 9
 \end{array}$$

$$\begin{array}{r}
 1 \\
 \text{Total sets} \quad 1\cancel{2} \quad 7 \\
 \text{Kids bored with} \quad - \quad 1 \quad 8 \\
 \hline
 \text{Interesting} \quad 9
 \end{array}$$

$$\begin{array}{r}
 1 \\
 \text{Battery toys} \quad 1\cancel{6} \quad 3 \\
 \text{AA battery} \quad - \quad 2 \quad 7 \\
 \hline
 \text{AAA battery} \quad 3 \quad 6
 \end{array}$$

### Subtracting Mentally (Page No. 109)

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

### Word Problems (Page No. 110 – 111)

$$\begin{array}{r}
 1. \quad \text{Total birds} \quad 2 \quad 0 \\
 \quad \text{Small birds} \quad - \quad 1 \quad 0 \\
 \quad \text{Large birds} \quad \quad 1 \quad 0
 \end{array}$$



$$\begin{array}{r}
 2. \quad \text{New dresses} \quad \quad 1 \ 7 \\
 \text{Red dresses} \quad \quad - \ 1 \ 1 \\
 \hline
 \text{Other dresses} \quad \quad \quad 6
 \end{array}$$

$$\begin{array}{r}
 3. \quad \text{Total tokens} \quad \quad 3 \ 4 \\
 \text{In reserve} \quad \quad - \ 1 \ 0 \\
 \hline
 \text{Playing tokens} \quad \quad 2 \ 4
 \end{array}$$

$$\begin{array}{r}
 4. \quad \text{New peices} \quad \quad 3 \ 3 \\
 \text{Discarded} \quad \quad - \ 1 \ 1 \\
 \hline
 \text{Increased} \quad \quad \quad 2 \ 2
 \end{array}$$

$$\begin{array}{r}
 5. \quad \quad \quad \quad \quad \quad 1 \\
 \text{Total figures} \quad \quad \quad 5\cancel{6} \ 6 \\
 \text{Batman figures} \quad \quad - \ 1 \ 9 \\
 \hline
 \text{Large birds} \quad \quad \quad 4 \ 7
 \end{array}$$

$$\begin{array}{r}
 6. \quad \text{Total beads} \quad \quad 8 \ 8 \\
 \text{Light green} \quad \quad - \ 2 \ 8 \\
 \hline
 \text{Dark green} \quad \quad \quad 6 \ 0
 \end{array}$$

$$\begin{array}{r}
 7. \quad \quad \quad \quad \quad \quad 1 \\
 \text{Total cars} \quad \quad \quad 5\cancel{6} \ 2 \\
 \text{Ferrari} \quad \quad \quad - \ 2 \ 8 \\
 \hline
 \text{Other make} \quad \quad \quad 3 \ 4
 \end{array}$$

$$\begin{array}{r}
 8. \quad \text{Total flights} \quad \quad 7 \ 2 \\
 \text{Nida flew} \quad \quad - \ 2 \ 2 \\
 \hline
 \text{Rida flew} \quad \quad \quad 5 \ 0
 \end{array}$$

## Chapter 8: Measuring is Basic to Math

### Tall and Short (Page No. 113)

Man = Tall

Woman = Short





Cupboard = Tall  
Table = Short

Truck = Tall  
Bike = Short

Cat = Short  
Doggie = Tall

**Note:** Remaining exercises of this chapter will be done by students themselves.

## Chapter 9: It is All about Time and Date

**Read the clock and write the time (Page No. 132)**

Twenty Minutes past Six	6:20
Fifty Minutes past Eight	8:50
Ten Minutes past Twelve	12:10
Forty Five Minutes past Three	3:45
6 O'clock	6:00
Forty Minutes past One	1:40
Twenty Minutes past Eleven	11:20
Fifty Five Minutes past Three	3:55

**Days, Weeks, Months and Years (Page No. 133)**

**A year has:**

Days

$$100 + 100 + 100 + 60 + 6$$

$$300 + 66$$

$$366$$

Weeks

$$10 + 10 + 10 + 10 + 10 + 2$$

$$50 + 2$$

$$52$$

Months

$$6 + 6$$

$$12$$

**Days, Weeks, Months and Years (Page No. 134)**

**A Month has:**

Days

$$10 + 10 + 10 + 1$$



30 + 1

31

Weeks

2 + 2

4

### Reading the Calendar (Page No. 136)

#### Matching Days and Dates

Fourth Friday falls on 26<sup>th</sup> April, 2018

First Monday falls in 1<sup>st</sup> April, 2018

Last Saturday falls on 27<sup>th</sup> April, 2018

First of May will falls on Wednesday

### Word Problems (Page No. 137)

1. Afternoon
2. On the first clock both hands on 6  
on the second clock long hand between the 6 & 7 and small hand on 9
3. 8:03 PM
4. First is wrong  
Second is also wrong because not every other year but every year is start from January 1<sup>st</sup>
5. 52
6. June 24<sup>th</sup>
7. 24, Monday
8. May

## Chapter 10: What is Money & How to use it?

### Learning to Make Money Combinations (Page No. 140)

- **Rs 44**

- 3<sup>rd</sup> Combination**

- 2 notes of 10

- 1 note of 20

- 2 coins of 1

- 1 coin of 2

- Note: 4<sup>th</sup> combination is not possible**

- **Rs 37**

- 2<sup>nd</sup> Combination**

- 1 note of 20

- 1 note of 10

- 1 coin of 5

- 1 coin of 2



**3<sup>rd</sup> Combination**

1 note of 20  
 1 note of 10  
 3 coin of 2  
 1 coin of 1

**4<sup>th</sup> Combination**

1 note of 20  
 1 note of 10  
 2 coin of 2  
 3 coin of 1

- **Rs 89**

8 Tens 9 Ones

**1<sup>st</sup> Combination**

1 note of 50  
 1 note of 20  
 1 note of 10  
 1 coin of 5  
 2 coin of 2

**2<sup>nd</sup> Combination**

4 note of 20  
 4 coin of 2  
 1 coin of 1

**3<sup>rd</sup> Combination**

8 note of 10  
 9 coin of 1

**4<sup>th</sup> Combination**

1 note of 50  
 3 note of 10  
 2 coin of 2  
 5 coin of 1

**Let us do some shopping (Page no. 141)****Magic Marker = Rs 24**

Asif had:	63 Rupees
He gave to shopkeeper:	50 Rupees
Amount left in his pocket:	13 Rupees
After deducting the cost:	$50 - 24 = 26$ Rupees
Asif now has:	$13 + 26 = 39$ Rupees

**Hair Brush = Rs 18**

Asif had:	39 Rupees
-----------	-----------



He gave to shopkeeper:	18 Rupees
Amount left in his pocket:	21 Rupees
After deducting the cost:	$18 - 18 = 0$ Rupees
Asif now has:	$21 + 0 = 21$ Rupees

**Let us do Some Shopping (Page No. 142)**

Rida and Nida went to buy three things. They bought two but had problem with the third. Record the transactions and find out what the problem was.

**Pouch = Rs 28**

Rida and Nida had:	100 Rupees
They gave to shopkeeper:	100 Rupees
Amount left in their pocket:	0 Rupees
After deducting the cost:	$100 - 28 = 72$ Rupees
Rida and Nida now had:	$0 + 72 = 72$ Rupees

**Doll = Rs 33**

Rida and Nida had:	72 Rupees
They gave to shopkeeper:	50 Rupees
Amount left in their pocket:	22 Rupees
After deducting the cost:	$50 - 33 = 17$ Rupees
Rida and Nida now had:	$22 + 17 = 39$ Rupees

**Socks = Rs 45**

Rida and Nida had:	39 Rupees
They did not have enough money to buy socks.	

**Word Problems (Page No. 143)**

1. One

2.

1 Sharpener = Rs 2

2 Sharpener = Rs  $2 + 2 = 4$

Then,  $10 - 4 =$  Rs 6

3.

Transformer Toy = Rs 52

5 Tens 2 Ones

**1<sup>st</sup> Combination**

1 note of 50

2 coin of 1

**2<sup>nd</sup> Combination**

5 note of 10

2 coin of 1



3<sup>rd</sup> Combination

2 note of 20

1 note of 10

1 coin of 2

**4.**

Rs 23

2 Tens 3 Ones

**1<sup>st</sup> Combination**

1 note of 20

1 coin of 2

1 coin of 1

**2<sup>nd</sup> Combination**

2 note of 10

3 coin of 1

**3<sup>rd</sup> Combination**

4 coin of 5

3 coin of 1

**5.**

Rs  $50 + 20 + 10 =$  Rs 80

Rs  $16 + 24 + 39 =$  Rs 79

Rs  $80 - 79 =$  Re 1

**6.**

Rs  $10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 =$  Rs 90

Rs  $12 + 24 + 17 + 23 =$  Rs 76

Rs  $90 - 76 =$  Rs 14

## Chapter 11: Using Pictures to Tell Facts

Reading Picture Graphs (Page No. 148)

Icons in place of Pictures

Reading the above Picture Graph














- Cricket
- Badminton
- Football
- Football



- Hockey
- Badminton

### Making Picture Graphs (Page No. 150)

#### Favorite Subjects of Students

Favorite subjects of Twins' classmates						
Computer	English	Islamiat	Math	Science	Social St.	Urdu
						
						
						

Write down the sequence the most popular subjects by number of students liking it.

1. Math
2. Science
3. Islamiat
4. Social Studies
5. English
6. Urdu
7. Computer

How many students like the subject of Computer?

- 1

How many students like the subjects of Math?

- 5




























What is the difference in the number of students liking Math and Computer?

- 4

Which three subjects have combined liking more than half students?

- Science
- Islamiat
- Social Studies

**Making Picture Graph (Page No. 151)**

Fruits bought by father from Fruit Mandi					
Apple	Anar	Banana	Cheeku	Kino	Leechi
					
					
					
					
					
					
					
2 <sup>nd</sup>	1 <sup>st</sup>	4 <sup>th</sup>	5 <sup>th</sup>	3 <sup>rd</sup>	6 <sup>th</sup>

**Chapter 12: Kids Get Parrot as Pet**

**Multiplying by 2 and 3 (Page No. 154)**

$2 \times 6 = 12 = 2 + 2 + 2 + 2 + 2 + 2 = 12$   
 $2 \times 7 = 14 = 2 + 2 + 2 + 2 + 2 + 2 + 2 = 14$   
 $2 \times 8 = 16 = 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 16$   
 $2 \times 9 = 18 = 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 18$   
 $2 \times 10 = 20 = 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 20$

**Let us Multiply 3**

$3 \times 4 = 12 = 3 + 3 + 3 + 3 = 12$   
 $3 \times 3 = 9 = 3 + 3 + 3 = 9$   
 $3 \times 8 = 24 = 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 = 24$



$$3 \times 7 = 21 = 3 + 3 + 3 + 3 + 3 + 3 + 3 = 21$$

$$3 \times 5 = 15 = 3 + 3 + 3 + 3 + 3 = 15$$

$$3 \times 10 = 30 = 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 = 30$$

$$3 \times 2 = 6 = 3 + 3 = 6$$

**Multiplying by 2 and 3 (Page No. 155)****Commutative Property of Multiplication****Multiplying the parrots**

- $2 \times 2 = 4$
- $2 \times 4 = 8$
- $1 \times 4 = 4$
- $3 \times 2 = 6$

**Multiplying by 3 and 4 (Page No. 156)**

- $2 \times 3 = 6$
- $3 \times 3 = 9$
- $5 \times 3 = 15$
- $3 \times 2 = 6$
- $6 \times 1 = 6$
- $8 \times 4 = 32$

**Multiplying by 5 and 10 (Page No. 157)**

- $5 \times 3 = 15$
- $5 \times 0 = 0$
- $5 \times 5 = 25$
- $10 \times 9 = 90$
- $7 \times 10 = 70$
- $1 \times 10 = 10$

**Word Problems (Page No. 159)**

1.  $2 \times 4 = 8$
2.  $4 \times 2 = 8$
3.  $3 \times 4 = 12$
4.  $4 \times 4 = 16$
5.  $4 \times 5 = 20$
6.  $10 \times 1 = 10$
7.  $3 \times 4 = 12$   
 $4 \times 3 = 12$  (Result of both Multiplication sentence is same)
8. 3 Times  
 $2 \times 6 = 12$   
 $3 \times 4 = 12$   
 $4 \times 3 = 12$





**Chapter 13: The Twins have their Birthday****Dividing by 2 (Page No. 162)**

- $4 \div 2 = 2$
- $8 \div 2 = 4$
- $10 \div 2 = 5$
- $6 \div 2 = 3$

**Dividing by 3 (Page No. 163)**

- $9 \div 3 = 3$
- $21 \div 3 = 7$
- $15 \div 3 = 5$
- $30 \div 3 = 10$

**Dividing by 4 (Page No. 164)**

- $12 \div 4 = 3$
- $20 \div 4 = 5$
- $28 \div 4 = 7$
- $8 \div 4 = 2$
- $16 \div 4 = 4$

**Dividing by 5 (Page No. 165)**

- $15 \div 5 = 3$
- $25 \div 5 = 5$
- $10 \div 5 = 2$
- $30 \div 5 = 6$
- $20 \div 5 = 4$

**Word Problems (Page No. 166)**

1.  $8 \div 4 = 2$
2.  $6 \div 1 = 6$   
 $6 \div 2 = 3$   
 $6 \div 3 = 2$
3.  $8 \div 2 = 4$
4.  $9 \div 3 = 3$
5.  $18 \div 3 = 6$
6.  $28 \div 4 = 7$
7.  $4 \div 4 = 1$
8.  $10 \div 5 = 2$



The End

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