

ROOTS UKG
Numeracy Term-2
ANSWER KEY

Teacher's Manual

Pg-7

Row 1: 2, 3, 1, 4; Row 2: 1, 2, 4, 3; Row 3: 3, 4, 1, 2

Pg-8

Growing pattern

4 circles on 4th airplane; 5 circles on 5th airplane

Colour four petals of 4th flower; Colour five petals of 5th flower

4 lemons; 5 lemons

Shrinking pattern

Draw 2 bulbs; Draw 1 bulb

Draw 2 bees; Draw 1 bee

Pg-9

3- add 1 dot more

5- add 2 dots more

7- add 2 dots more

9- add 3 dots more

5- add 4 dots more

8- add 3 dots more

8- add 4 dots more

4- add 2 dots more

6- add 1 dot more

8- add 2 dots more

10- add 5 dots more

6- add 4 dots more

9- add 6 dots more

Pg-12



Pg-13

1	+	1	=	2
---	---	---	---	---

2	+	0	=	2
---	---	---	---	---

1	+	2	=	3
---	---	---	---	---

0	+	3	=	3
---	---	---	---	---

1	+	3	=	4
---	---	---	---	---

Pg-14

Do it yourself.

Pg-15

$$1 + 1 = 2; 1 + 1 = 2$$

$$2 + 1 = 3; 1 + 2 = 3$$

$$3 + 1 = 4; 1 + 3 = 4$$

$$4 + 1 = 5; 1 + 4 = 5$$

$$1 + 2 = 3; 2 + 1 = 3$$

$$2 + 2 = 4; 2 + 2 = 4$$

$$3 + 2 = 5; 2 + 3 = 5$$

$$1 + 3 = 4; 3 + 1 = 4$$

$$2 + 3 = 5; 3 + 2 = 5$$

$$1 + 4 = 5; 4 + 1 = 5$$

Pg-16

$$2 + 2 = 4 \text{ (draw 2 equal pieces of cheese)}$$

$$3 + 3 = 6 \text{ (draw 3 equal pieces of cheese)}$$

$$4 + 4 = 8 \text{ (draw 4 equal pieces of cheese)}$$

$$5 + 5 = 10 \text{ (draw 5 equal pieces of cheese)}$$

Pg-17

$$4 + 2 = 6; \quad 1 + 1 = 2$$

$$5 + 5 = 10; \quad 2 + 1 = 3$$

$$2 + 2 = 4; \quad 5 + 4 = 9$$

$$2 + 3 = 5; \quad 4 + 4 = 8$$

$$5 + 3 = 8; \quad 4 + 3 =$$

Pg-18

$$5 + 3 = 8$$

$$4 + 4 = 8$$

$$3 + 6 = 9$$

$$5 + 1 = 6$$

$$2 + 6 = 8$$

ASK ME

Pg-19

$$2 + 3 = 5$$

$$1 + 2 = 3$$

$$4 + 1 = 5$$

$$3 + 1 = 4$$

$$6 + 2 = 8$$

$$4 + 3 = 7$$

$$4 \text{ tomatoes} + 3 \text{ tomatoes} = 7$$

$$5 \text{ tomatoes} + 3 \text{ tomatoes} = 8$$

$$3 \text{ tomatoes} + 6 \text{ tomatoes} = 9$$

Pg-22

2	+	8	=	10
---	---	---	---	----

4	+	6	=	10
---	---	---	---	----

8	+	2	=	10
---	---	---	---	----

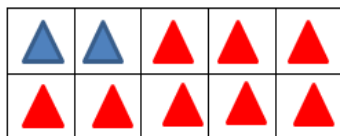
6	+	4	=	10
---	---	---	---	----

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

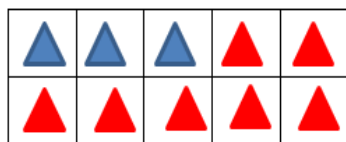
5	+	5	=	10
---	---	---	---	----

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

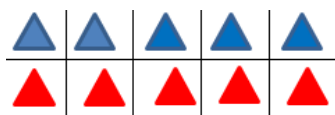
5	+	5	=	10
---	---	---	---	----



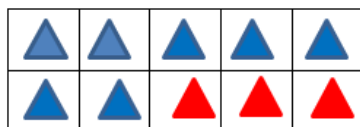
$$2 + 8 = 10$$



$$3 + 7 = 10$$



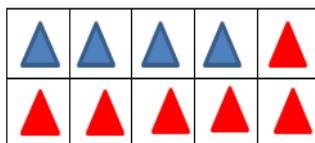
$$5 + 5 = 10$$



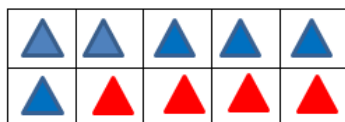
$$7 + 3 = 10$$



$$9 + 1 = 10$$



$$4 + 6 = 10$$



$$6 + 4 = 10$$



$$8 + 2 = 10$$



$$10 + 0 = 10$$

Row 1: $9 + 1$ Row 2: $9 + 1$ Row 3: $5 + 5$ Row 4: $2 + 8$

Pg-25

$9 + 1$ $3 + 7$ $7 + 3$ $5 + 5$ $4 + 6$ $8 + 2$ $10 + 0$

Pg-27

Talk Time:

- What is your favourite day?

Do it yourself.

- What day comes just after Friday?

Saturday

- What day comes just after Sunday?

Monday

- What days of the week do you go to school?

Monday to Saturday or Monday to Friday

- What days come between Wednesday and Friday?

Thursday

Pg-28

$$1 + 1 = 2$$

$$2 + 1 = 3$$

$$3 + 1 = 4$$

$$4 + 1 = 5$$

$$5 + 1 = 6$$

$$6 + 1 = 7$$

$$7 + 1 = 8$$

$$8 + 1 = 9$$

$$9 + 1 = 10$$

$$1 + 1 = 2$$

$$1 + 2 = 3$$

$$1 + 3 = 4$$

$$1 + 4 = 5$$

$$1 + 5 = 6$$

$$1 + 6 = 7$$

$$1 + 7 = 8$$

$$1 + 8 = 9$$

$$1 + 9 = 10$$

$$1 + 2 = 3$$

$$2 + 2 = 4$$

$$3 + 2 = 5$$

$$4 + 2 = 6$$

$$5 + 2 = 7$$

$$6 + 2 = 8$$

$$7 + 2 = 9$$

$$8 + 2 = 10$$

$$2 + 1 = 3$$

$$2 + 2 = 4$$

$$2 + 3 = 5$$

$$2 + 4 = 6$$

$$2 + 5 = 7$$

$$2 + 6 = 8$$

$$2 + 7 = 9$$

$$2 + 8 = 10$$

$$1 + 3 = 4$$

$$2 + 3 = 5$$

$$3 + 3 = 6$$

$$4 + 3 = 7$$

$$5 + 3 = 8$$

$$6 + 3 = 9$$

$$7 + 3 = 10$$

$$3 + 1 = 4$$

$$3 + 2 = 5$$

$$3 + 3 = 6$$

$$3 + 4 = 7$$

$$3 + 5 = 8$$

$$3 + 6 = 9$$

$$3 + 7 = 10$$

Pg-29

$$1 + 4 = 5$$

$$2 + 4 = 6$$

$$3 + 4 = 7$$

$$4 + 4 = 8$$

$$5 + 4 = 9$$

$$6 + 4 = 10$$

$$4 + 1 = 5$$

$$4 + 2 = 6$$

$$4 + 3 = 7$$

$$4 + 4 = 8$$

$$4 + 5 = 9$$

$$4 + 6 = 10$$

$1 + 5 = 6$

$2 + 5 = 7$

$3 + 5 = 8$

$4 + 5 = 9$

$5 + 5 = 10$

$5 + 1 = 6$

$5 + 2 = 7$

$5 + 3 = 8$

$5 + 4 = 9$

$5 + 5 = 10$

$1 + 6 = 7$

$2 + 6 = 8$

$3 + 6 = 9$

$4 + 6 = 10$

$6 + 1 = 7$

$6 + 2 = 8$

$6 + 3 = 9$

$6 + 4 = 10$

$1 + 8 = 9$

$2 + 8 = 10$

$8 + 1 = 9$

$8 + 2 = 10$

$1 + 9 = 10$

$9 + 1 = 10$

Pg-30

Draw the fruits in the basket.

Draw 3 bananas and 2 mangoes in a basket.

Show on a number line.

$3 + 2 = 5$ ASK ME



Fill the correct number of dots.

●	●	●	●	●

Write the equation.

2 Mangoes + 3 Bananas = 5 Fruits

Answer

5 Fruits

Pg-31

Draw the ducks.

Draw 8 ducks.

Show on a number line.

$4 + 4 = 8$ **ASK ME**



Fill the correct number of dots.

●	●	●	●	●
●	●	●		

Write the equation.

4 Ducks + 4 Ducks = 8 Ducks

Answer

8 ducks

Pg-34

Row 2: 2nd picture

Row 3: 1st picture

Row 4: 3rd picture

Row 5: 2nd picture

Pg-35

Do it yourself.

Pg-36



= circle 5 pictures

Pg-37



Pg-40

3 leaves are left; 5 leaves are left; 1 leaf is left; 2 leaves are left

Pg-41

$$4 - 1 = 3$$

$$2 - 1 = 1$$

$$3 - 1 = 2$$

$$4 - 2 = 2$$

$$1 - 1 = 0$$

$$3 - 3 = 0$$

$$5 - 1 = 4$$

$$7 - 4 = 3$$

$$10 - 1 = 9$$

$$10 - 5 = 5$$

Pg-42

$$5 - 3 = 2$$

$$10 - 4 = 6$$

$$10 - 3 = 7$$

$$3 - 3 = 0$$

$$4 - 2 = 2$$

$$4 - 3 = 1$$

$$5 - 2 = 3$$

$$10 - 9 = 1$$

$$10 - 6 = 4$$

$$10 - 5 = 5$$

Pg- 43 and 44 (ASK ME)

Pg- 45

$$5 - 2 = 3$$

ASK ME



$$10 - 5 = 5$$

ASK ME



Pg-46

3	-	2	=	1
---	---	---	---	---

2	-	1	=	1
---	---	---	---	---

5	-	1	=	4
---	---	---	---	---

3	-	1	=	2
---	---	---	---	---

4	-	3	=	1
---	---	---	---	---

5	-	2	=	3
---	---	---	---	---

5	-	4	=	1
---	---	---	---	---

4	-	2	=	2
---	---	---	---	---

5	-	3	=	2
---	---	---	---	---

4	-	4	=	0
---	---	---	---	---

Pg-47

$$7 - 3 = 4$$

$$9 - 4 = 5$$

$$8 - 7 = 1$$

$$5 - 5 = 0$$

Pg-48

$1 - 1 = 0$

$2 - 2 = 0$

$3 - 3 = 0$

$4 - 4 = 0$

$5 - 5 = 0$

$6 - 6 = 0$

$7 - 7 = 0$

$8 - 8 = 0$

$9 - 9 = 0$

$10 - 10 = 0$

$2 - 1 = 1$

$3 - 1 = 2$

$3 - 2 = 1$

$4 - 3 = 1$

$5 - 4 = 1$

$6 - 5 = 1$

$7 - 6 = 1$

$8 - 7 = 1$

$9 - 8 = 1$

$10 - 9 = 1$

$10 - 4 = 6$

$7 - 1 = 6$

$5 - 1 = 4$

$4 - 2 = 2$

$5 - 3 = 2$

$6 - 4 = 2$

$7 - 5 = 2$

$8 - 6 = 2$

$9 - 7 = 2$

$10 - 8 = 2$

$6 - 1 = 5$

$10 - 9 = 1$

$5 - 1 = 4$

$10 - 8 = 2$

$6 - 1 = 5$

$9 - 2 = 7$

$7 - 3 = 4$

$10 - 3 = 7$

$9 - 4 = 5$

$9 - 5 = 4$

$10 - 6 = 4$

$2 - 0 = 2$

$5 - 0 = 5$

$8 - 0 = 8$

$10 - 1 = 9$

$7 - 2 = 5$

$10 - 2 = 8$

$8 - 3 = 5$

$7 - 4 = 3$

$10 - 4 = 6$

$10 - 5 = 5$

$0 - 0 = 0$

$3 - 0 = 3$

$6 - 0 = 6$

$9 - 0 = 9$

$6 - 2 = 4$

$8 - 2 = 6$

$6 - 3 = 3$

$9 - 3 = 6$

$8 - 4 = 4$

$8 - 5 = 3$

$9 - 6 = 3$

$1 - 0 = 1$

$4 - 0 = 4$

$7 - 0 = 7$

$10 - 0 = 10$

Pg-53

Milk: 1; Juice: 2; Coffee: 4; Tea: 3; Total number: 10

Pg-54

1-c; 2-a; 3-f; 4-b; 5-d

Pg-55

There are 9 windows in the big building.





There are 7 windows in the big building.

There are 16 windows in the both buildings.

Pg-56

	1	2	3	4	5	6	7	8	9	10
●										
●										
●										
●										

Pg-57

10				
9				
8				
7				
6				
5				
4				
3				
2				
1				
				

Pg-58

5					
4					
3					
2					
1					

Pg-59

10					
9					
8					
7					
6					
5					
4					
3					
2					
1					

Pg-62



Pg-63

Jack needed: uniform, fruits and vegetables, milk, soap

Jack wanted: sweets, colours, a pet, a toy

Pg-64 and 65

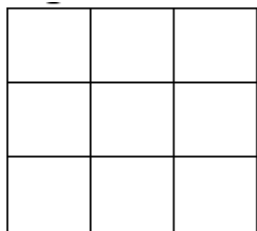
He sold 6 balloons. Draw 12 balloons in the drawing space.

Pg-66

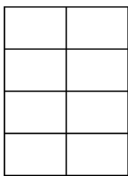
3 groups of 2 flowers.

3 groups of 4 cups.

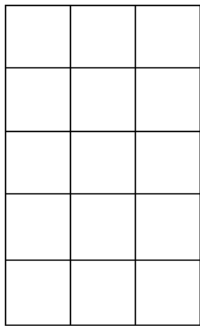
Pg-67



$3 + 3 + 3$



$2 + 2 + 2 + 2$



$3 + 3 + 3 + 3 + 3$

Q1. How can Siya and Sam share the biryani fairly?

Ans1. Siya and Sam can share the biryani fairly by dividing it into two equal parts so both get the same amount.

Q2. How can Jill and Jack share the Gulab Jamuns equally?

Ans2. Jill and Jack can share the Gulab Jamuns equally by giving the same number of Gulab Jamuns to each person. There are 4 Gulab Jamuns, each gets 2.

Pg-69

Q1. How many Imartis did Grandmother buy?

Ans1. Grandmother bought 12 Imartis.

Q2. How many does each one get?

Ans2. There are 3 people. So, each one gets 4 Imartis.

Pg-70

Each child gets 3 robots.

Pg-71

Each child gets 5 mangoes.

Each child gets 5 mangoes.

Pg-72

3rd picture (each child gets 4 marbles)

Pg-73

Do it yourself.

Pg-74

Ice cream; toy car; teddy bear



How many bugs did Jill draw in total?

12

Pg-75

- 1st picture (equally distributed)
- Each child gets 3 strawberries each.

Pg-78

newspaper ✓

polythene ✗

aluminium cans ✓

plastic jar ✓

battery ✓

bubble wrap ✓

pet plastic bottles ✓

aerosol cans ✗

cardboard box ✓

Pg-79

Save Trees/Earth care – ✓ Yes

Saving water – ✓ Yes

Using energy-saving ideas – ✓ Yes

Throwing trash in the dustbin – ✓ Yes

Say No to plastic bags – ✓ Yes

Wasting water (tap running) – ✗ No

Recycle- ✓ Yes

Pg-80

21-Draw 1 more seed.

23-Draw 3 more seeds.

24-Draw 4 more seeds.

25-Draw 5 more seeds.

22-Draw 2 more seeds.

Pg-81

26-Draw 6 more seeds.

29- Draw 9 more seeds.

30- Draw 10 more seeds.

28- Draw 8 more seeds.

27- Draw 7 more seeds.

Pg-83

60 peaches

Pg-84

**30 peanuts; 33 peanuts; 36 peanuts; 35 peanuts; 38 peanuts
40 peanuts**

Pg-85

**42 peanuts; 43 peanuts; 45 peanuts; 48 peanuts; 49 peanuts
40 peanuts**

Pg-86

11- One block and one cube

15- One block and five cubes

20- Two blocks

23- Two blocks and three cubes

25- Two blocks and five cubes

Pg-87

30- Three blocks

32- Three blocks and two cubes

39- Three blocks and nine cubes

44- Four blocks and four cubes

47- Four blocks and seven cubes

50- Five blocks

Pg-88

Trace yourself.

Pg-89

21, 22, **23**, 24, 25,
26, 27, 28, 29, 30,
31, 32, 33, 34, **35**,
36, 37, **38**, 39, 40,
41, **42**, 43, 44, 45,
46, 47, 48, 49, **50**

Pg-90

Do it yourself.

Pg-91

1
2
3
4
5
6
7
8
9
10

21
22
23
24
25
26
27
28
29
30

31
32
33
34
35
36
37
38
39
40

41
42
43
44
45
46
47
48
49
50

Pg-92

What will you count by 2s?

Mangoes

What will you count by 3s?

Apples

What will you count by 4s?

Pear

Draw something that you will count by 6s.

Bananas

Draw something that you will count by 10s.

Grapes

Pg-93

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38,
40, 42, 44, 46, 48, 50.

Pg-94

How many frogs can you see?

5

How many lions can you see?

5

Pg-95

Make way using numbers 5,10,15,20,25,30,35,40,45,50

Pg-96

2, 4, 6, 8, 10, 12

3, 5, 7, 9, 11, 13

32, 34, 36, 38, 40, 42

25, 27, 29, 31, 33, 35

Pg-97

Skip count by 5 and write the missing numbers.

5, 10, 15, 20, **25,** 30

25, 30, 35, 40, 45, **50**

Skip count by 10 and write the missing numbers.

0, 10, **20, 30,** 40, 50

0, **10, 20,** 30, **40,** 50

Pg-98

5, 10, 15, 20, 25, 30

35, 40, 45, 50, 55, 60

65, 70, 75, 80, 85, 90

95, 100

Pg-99

10, 20, 30, 40, 50, 60, 70, 80, 90, 100

10, 20, 30, 40, 50, 60, 70, 80, 90, 100

Pg-100

1, 2, 3, 4, 5, 6, 7, 8, 9, 10

11, 12, 13, 14, 15, 16, 17, 18, 19, 20

21, 22, 23, 24, 25, 26, 27, 28, 29, 30

31, 32, 33, 34, 35, 36, 37, 38, 39, 40

41, 42, 43, 44, 45, 46, 47, 48, 49, 50

51, 52, 53, 54, 55, 56, 57, 58, 59, 60

61, 62, 63, 64, 65, 66, 67, 68, 69, 70

71, 72, 73, 74, 75, 76, 77, 78, 79, 80

81, 82, 83, 84, 85, 86, 87, 88, 89, 90

91, 92, 93, 94, 95, 96, 97, 98, 99, 100

Pg-101

I want 100 **pencils**

but not 100 **sharpeners.**

I have 100 **stickers**

but not 100 **notebooks.**

I have seen 100 **cars**

but not 100 **buses.**

If I had ₹ 100 I would buy a **toy car**

but not a **bicycle.**

Pg-102

1. Coin

2. Needle

3. Bottle

4. Three

5. Square

6. Octopus
7. Star
8. Blue Whale
9. Butterfly
10. Clock

