

Key book

Understanding Mathematics

1



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UNIT 1

Page No. 5

1 top

2 bottom

3 total

Page No. 6

5 on

3 under

8 birds and children

Page No. 7

5 above

3 below

8 balloons and ducks

Page No. 8

1 inside

4 outside

Page No. 9

Rabbit

Tortoise

7

UNIT 2

Page No. 11

2

3

4

5

6

7

8

9

Eight

Seven

Six

Five

Four

Three

Two

One

Page No. 12

3

4

5

6

7

8

6

5

4

3

2

1

7

8

9

1

2

3

5

6

7

2

3

4

4

5

6

7

8

9

4

7

8

6

9

Page No. 13

before

between

after

4

4

9

3

5

8

1

2

4

7

3

7

5

6

6

8

7

5

6

8

3

Page No. 15

4

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4

3

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7

4

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3

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Page No. 16

$$9 > 7$$

$$5 = 5$$

$$1 < 2$$

Three Five

$$4 \quad 5 \quad | \quad 3 \quad 2$$

$$9 \quad | \quad 1 \quad 5$$

Page No. 18

$$1 \quad 2 \quad 3 \quad 4 \quad 5 \quad 8 \quad 9$$

$$1 \quad 3 \quad 5 \quad 6 \quad 7 \quad 8 \quad 9$$

$$2 \quad 3 \quad 4 \quad 5 \quad 6 \quad 7 \quad 8$$

$$1 \quad 2 \quad 3 \quad 5 \quad 6 \quad 7 \quad 9$$

$$3 \quad 4 \quad 5 \quad 6 \quad 7 \quad 8 \quad 9$$

$$7 \quad 6 \quad 5 \quad 4 \quad 3 \quad 2 \quad 1$$

$$9 \quad 8 \quad 7 \quad 5 \quad 4 \quad 3 \quad 2$$

$$9 \quad 8 \quad 7 \quad 5 \quad 4 \quad 3 \quad 2$$

$$8 \quad 6 \quad 5 \quad 4 \quad 3 \quad 2 \quad 1$$

$$9 \quad 8 \quad 7 \quad 5 \quad 4 \quad 3 \quad 2$$

Page No. 20 Worksheet

$$1 \quad 2 \quad 3 \quad 4 \quad 5$$

$$6 \quad 7 \quad 8 \quad 9 \quad 0$$

MCQ - I

1. nine 2. 9 3. four 4. 5 5. less than

6. 4 7. 8 8. 4 9. 8 10. 4 and 6

UNIT 3
Page No. 24

$$2 + 3 = 5$$

$$3 + 5 = 8$$

$$2 + 4 = 6$$

$$4 + 5 = 9$$

Page No. 25

$$7 \quad | \quad 4 \quad | \quad 9$$

$$5 \quad | \quad 8 \quad | \quad 6$$

$$9 \quad | \quad 8 \quad | \quad 7$$

$$7 \quad | \quad 9 \quad | \quad 8$$

7	9	8	8	9
5	5	6	8	8
9	9	7	4	7

Page No. 26

1	5	2	4	6	8
5	6	7	8	9	

Page No. 27

3 + 4 = 7	4 + 3 = 7
3 + 6 = 9	6 + 3 = 9
5 + 3 = 8	3 + 5 = 8

Page No. 28

5 + 2 = 7	1 + 4 = 5	3 + 5 = 8
2 + 5 = 7	4 + 1 = 5	5 + 3 = 8
5 + 4 = 9	2 + 4 = 6	6 + 3 = 9
4 + 5 = 9	4 + 2 = 6	3 + 6 = 9
2 + 3 = 5	8 + 1 = 9	7 + 2 = 9
3 + 2 = 5	1 + 8 = 9	2 + 7 = 9
6 + 2 = 8	2 + 6 = 8	

Page No. 29

Yes	No
No	Yes
Yes	No
No	Yes
Yes	No
4	5
7	2
4	4
2	3

Page No. 30

1. $3 + 5 = 8$
2. $4 + 2 = 6$
3. $2 + 2 = 4$
4. $5 + 2 = 7$
5. 7
6. 6
7. 9

Page No. 31

6	7	9	9	8
9	7	6	8	9
9	8	4		

Magic Triangle

3	4	5
---	---	---

Page No. 32

Add	+0
0	=0
1	=1
2	=2
3	=3
4	=4
5	=5
6	=6
7	=7
8	=8
9	=9

Add	+1
0	=1
1	=2
2	=3
3	=4
4	=5
5	=6
6	=7
7	=8
8	=9

Add	+2
0	=2
1	=3
2	=4
3	=5
4	=6
5	=7
6	=8
7	=9

Add	+3
0	=3
1	=4
2	=5
3	=6
4	=7
5	=8
6	=9

Add	+4
0	=4
1	=5
2	=6
3	=7
4	=8
5	=9

Add	+5
0	=5
1	=6
2	=7
3	=8
4	=9

MCQ - II

1. addition
2. vertical addition
3. same
4. 6
5. just after
6. 3
7. 9
8. 4
9. horizontal addition
10. same

UNIT 4

Page No. 36

2 1 5

Page No. 37

6	6
6	3
5	5
5	3
4	4
4	3
4	4
4	5
6	6
6	2

Page No. 38

3 4 5 4 4 2

Page No. 39

6	5	4
6	5	6
4	3	1
3	4	4
2	2	1
5	1	3
1	2	4
		3
		7

Yes No
No Yes
Yes No

Page No. 40

7 5 8 6 7 3 1

Page No. 41

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

Page No. 42

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

MCQ – III

1. subtraction 2. 7 3. = 4. same number 5. 5
6. 4 7. just before 8. zero 9. 5 10. subtract

UNIT 5

Page No. 46-47

Eleven 11
Twelve 12
Thirteen 13
Fourteen 14
Fifteen 15
Sixteen 16
Seventeen 17
Eighteen 18
Nineteen 19
Twenty 20

20 19 18 17 16 15 14 13 12 11
10 9 8 7 6 5 4 3 2 1

Page No. 48

Eleven Sixteen
Twelve Seventeen
Thirteen Eighteen
Fourteen Nineteen
Fifteen Twenty

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

Page No. 49

18	15	17
14	18	19
15	13	14
17	12	20
19	11	16
13	19	13
>	>	=
<	>	=
>	<	>
<	<	<
>	=	<
>	<	>

Page No. 50

5 + 6 = 11	1 + 11 = 12	1 + 12 = 13
2 + 9 = 11	2 + 10 = 12	2 + 11 = 13
3 + 8 = 11	3 + 9 = 12	3 + 10 = 13
4 + 7 = 11	4 + 8 = 12	4 + 9 = 13
6 + 5 = 11	5 + 7 = 12	5 + 8 = 13
8 + 6 = 14	7 + 8 = 15	9 + 7 = 16
7 + 7 = 14	9 + 6 = 15	9 + 8 = 17
5 + 9 = 14	5 + 10 = 15	9 + 9 = 18
4 + 10 = 14	8 + 7 = 15	10 + 9 = 19
3 + 11 = 14	3 + 12 = 15	10 + 10 = 20

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

Page No. 52

8	4	7			
7	7	9			
3	10	10			
4	6	10			
8	8	10			
7	7	17			
5	4	8	6	5	5
9	10	8	8	3	7
9	9	9	9	7	6

Page No. 56

		Tens	Ones			Tens	Ones		
21	Twenty-one	2	+	1	36	Thirty-six	3	+	6
22	Twenty-two	2	+	2	37	Thirty-seven	3	+	7
23	Twenty-three	2	+	3	38	Thirty-eight	3	+	8
24	Twenty-four	2	+	4	39	Thirty-nine	3	+	9
25	Twenty-five	2	+	5	40	Forty	4	+	0
26	Twenty-six	2	+	6	41	Forty-one	4	+	1
27	Twenty-seven	2	+	7	42	Forty-two	4	+	2
28	Twenty-eight	2	+	8	43	Forty-three	4	+	3
29	Twenty-nine	2	+	9	44	Forty-four	4	+	4
30	Thirty	3	+	0	45	Forty-five	4	+	5
31	Thirty-one	3	+	1	46	Forty-six	4	+	6
32	Thirty-two	3	+	2	47	Forty-seven	4	+	7
33	Thirty-three	3	+	3	48	Forty-eight	4	+	8
34	Thirty-four	3	+	4	49	Forty-nine	4	+	9
35	Thirty-five	3	+	5	50	Fifty	5	+	0

Page No. 57

	26		39		30			
	42		30		50			
	30		31		31			
	45		45		47			
	27		29		39			
	29		24		27			
	38		49		26			
	49		40		38			
44	45	46	19	20	21	45	46	47
28	29	30	26	27	28	37	38	39
30	31	32	35	36	37	22	23	24
21	22	23	40	41	42	32	33	34
27	28	29	34	35	36	43	44	45
48	49	50	39	40	41	36	37	38

Page No. 58

30	27	32
37	46	29
28	33	21
24	22	16

>		=		<
>		>		=
<		<		>
>		>		<

31	32	33	34	35	36
9	19	27	29	39	47
46	45	44	43	42	41
35	30	25	20	15	10

Page No. 59

11 + 9 = 20	15 + 4 = 19	12 + 7 = 19
9 + 11 = 20	4 + 15 = 19	7 + 12 = 19
20 - 11 = 9	19 - 15 = 4	19 - 12 = 7
20 - 9 = 11	19 - 4 = 15	19 - 7 = 12
8 + 6 = 14	13 + 5 = 18	10 + 8 = 18
6 + 8 = 14	5 + 13 = 18	8 + 10 = 18
14 - 8 = 6	18 - 13 = 5	18 - 10 = 8
14 - 6 = 8	18 - 5 = 13	18 - 8 = 10

Page No. 61

51	Fifty-one	66	Sixty-six
52	Fifty-two	67	Sixty-seven
53	Fifty-three	68	Sixty-eight
54	Fifty-four	69	Sixty-nine
55	Fifty-five	70	Seventy
56	Fifty-six	71	Seventy-one
57	Fifty-seven	72	Seventy-two
58	Fifty-eight	73	Seventy-three
59	Fifty-nine	74	Seventy-four
60	Sixty	75	Seventy-five
61	Sixty-one	76	Seventy-six
62	Sixty-two	77	Seventy-seven
63	Sixty-three	78	Seventy-eight
64	Sixty-four	79	Seventy-nine
65	Sixty-five	80	Eighty

Page No. 62

81	Eighty-one	91	Ninety-one
82	Eighty-two	92	Ninety-two

83	Eighty-three	93	Ninety-three
84	Eighty-four	94	Ninety-four
85	Eighty-five	95	Ninety-five
86	Eighty-six	96	Ninety-six
87	Eighty-seven	97	Ninety-seven
88	Eighty-eight	98	Ninety-eight
89	Eighty-nine	99	Ninety-nine
90	Ninety		

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

Page No. 63

68		53		58						
75		59		63						
87		65		100						
99		70		90						
92		73		70						
59		79		60						
53		99		67						
69		88		72						
90		94		89						
98	99	100		79	80	81		67	68	69
69	70	71		78	79	80		54	55	56
60	61	62		50	51	52		59	60	61
57	58	59		74	75	76		88	89	90

Page No. 64

(71)	62	50		51	55	(56)		81	90	(91)
62	84	(92)		77	72	(88)		(99)	92	98
63	(73)	53		55	90	(95)		(100)	91	99
70	72	(79)		(79)	52	69		(95)	75	85

(50) 52	(67) 77	(98) 99	(65) 85
(53) 63	(85) 97	69 (68)	(79) 89
62 (52)	(51) 61	74 (64)	(81) 90
90 (80)	81 (61)	(58) 68	74 (73)
93 > 64	77 < 79	68 = 68	
65 > 63	50 < 51	56 < 76	
66 > 65	58 = 58	52 = 52	
37-cross 32-circle		86-cross 82-circle	
99-cross 92-circle		27-cross 22-circle	
49-cross 40-circle		79-cross 75-circle	

MCQ – IV

- 20+1
- 5 tens
- less than
- 65
- 99
- <
- 73
- 10
- 99
- ascending order

UNIT 6

Page No. 67

19		83
28	54	92
37	63	22
46	72	70

1 ten 2 ones	4 tens 5 ones	
2 tens 3 ones	5 tens 6 ones	7 tens 8 ones
3 tens 4 ones	6 tens 7 ones	8 tens 9 ones

Page No. 68

- 70 70
- 90 80 90 60 40
- 20 30 50 50 70
- 80 60 70 80 90
- 40 70 90 90 60

Page No. 69

3 tens 7 ones 37	
6 tens 7 ones 67	4 tens 6 ones 46
3 tens 7 ones 37	4 tens 9 ones 49

Page No. 70-71

- 69 79 55 67 65
- 88 59 77 49 75
- 64 87 69 96 83
- 98 83 88 89 85
- 89 99 88 89 97
- 69 87 99 89 99

Yes
 No 25
 Yes
 Yes
 Yes
 Yes
 No 64
 Yes
 No 74

Page No. 72

1. 90 2. 78 3. 56 4. 58 5. 88 6. 55

Page No. 73

1. 40 10 10 10 10 2. 0 40 30 50 20
 3. 30 50 80 10 30 4. 10 20 60 50 70

Page No. 74

1. 30 51 22 22 23 2. 31 21 31 21 51
 3. 33 42 53 23 45 4. 21 42 31 20 32

Page No. 75

1. 52 2. 31 3. 14 4. 42 5. 36 6. 22

Page No. 76

1 hundred **100** 2 hundreds **200**
 3 hundreds **300** 4 hundreds **400**
 5 hundreds **500**

Page No. 77 Worksheet

1. 3 + 4 2. 3 + 4 + 9 3. 8 + 9 4. 3 + 4 + 8
 5. 98 6. 9 tens 8 ones 7. 23
 8. 2 tens 3 ones 9. Ninety-eight, Twenty-three 10. 75

MCQ - V

1. 8 2. 64 3. 7 tens 4. 9 tens 9 ones
 5. 54 6. 100 7. 19 8. 58 9. 20 10. 90

UNIT 7

Page No. 80

Number of groups = **4** Number of groups = **3**
 Number in each group = **2** number in each group = **4**
4 group of **2** is equal to **3** groups of **4** is equal to
2 + 2 + 2 + 2 = 8 **4 + 4 + 4 = 12**
4 group of **2** is **8**. **3** groups of **4** is **12**.

Page No. 81

3	6
4	8
5	10
6	12
7	14
8	16
9	18
10	20

Page No. 82

3	15
4	20
5	25
6	30
7	35
8	40
9	45
10	50

Page No. 83

3	30
4	40
5	50
6	60
7	70
8	80
9	90
10	100

Page No. 84

2	4	6	8	10	12	14	16	18	20
5	10	15	20	25	30	35	40	45	50
10	20	30	40	50	60	70	80	90	100

Page No. 85

$$2 + 2 + 2 + 2 = 8 \text{ keys}$$

$$\text{or } 4 \times 2 = 8$$

$$4 + 4 + 4 = 12 \text{ balls}$$

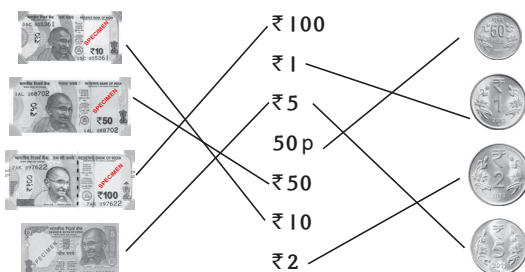
$$\text{or } 3 \times 4 = 12$$

MCQ - VI

1. addition
2. 3
3. 11 times
4. 6
5. $3+3+3+3=12$
6. 24
7. 6
8. 20 legs
9. 8
10. 10

UNIT 9**Page No. 90**

1. 50p
2. 10p
3. 75p
4. ₹ 5
5. ₹ 100

Page No. 91



Page No. 92

₹ 1 ₹ 5
 ₹ 2 ₹ 8
 ₹ 3 ₹ 10



Page No. 93 Worksheet

1. ₹ 9 2. ₹ 30 3. ₹ 18 4. ₹ 20 5. ₹ 7

MCQ – VII

1. one paisa 2. 2 one rupee 3. ₹ 4. 50p 5. ₹ 100
6. Four 7. 2 five rupee notes 8. ₹ 5 9. 100
10. 50

UNIT 10

Page No. 96

Morning	Evening
Day	Night

Page No. 97

4 o'clock 4:00	9 o'clock 9:00	8 o'clock 8:00
2 o'clock 2:00	3 o'clock 3:00	10 o'clock 10:00

Page No. 99

Monday Tuesday Wednesday Thursday Friday Saturday Sunday
Monday Saturday Tuesday Friday Sunday Wednesday Thursday

MCQ - VIII

1. daytime 2. 24 hours 3. hour 4. minute
5. 12 o'clock 6. noon time 7. Sunday and Tuesday
8. seven days 9. Wednesday 10. Monday

UNIT 11

Page No. 103

5	3
6	4

Page No. 104

7	7	5
---	---	---

Page No. 105

12	14
----	----

Page No. 106

L H	H L	L H
b. 4	c. 7	d. b e. c

Page No. 107

lighter than 1 kg about 1 kg heavier than 1 kg

Page No. 108

5 3

Page No. 110 Worksheet

An apple = 6 blocks An orange = 5 blocks 11 blocks

2 A 5 1 D

1. 9 2. glass

MCQ - IX

1. metre 2. gram 3. litre 4. litre 5. kilogram 6. metre
7. hand span 8. 100 cm 9. capacity 10. equal to

UNIT 12

Page No. 113

Can roll – Orange, Apple, Football, Ball, Can, Candle, Drum, Wheel

Can slide – Book, Bag, Brick, Dice, Box, Cube

Page No. 116

Cube	Sphere	Cone
Circle	triangle	Rectangle
round	no	no
three	3	
four	4	4 4 equal

Page No. 117

5 3 4 7

MCQ - X

1. three sides 2. four 3. equal opposite sides
4. cone 5. wheel 6. book 7. sphere
8. cone 9. no side 10. sphere

UNIT 13

Page No. 121

$\frac{1}{2}$ $\frac{1}{4}$

Page No. 122

1	3	9
6	5	4

UNIT 14

Page No. 123

APPLE 5 BOOK 4 KITE 4 COMPUTER 8
 BALL 4 BAG 3 PENCIL 6 CLOCK 5
 BALLOON 7 BAT 3
 a. 3 b. 2 c. 2 d. 1 e. 5

Page No. 126

1 apple 2 apples 3 apples 4 apples 5 apples
 3 apples 5 apples 7 apples 9 apples

UNIT 15

Page No. 126-127

1	3	5	7	9	11	13	
2	5	8	11	14	17	20	23
3	7	11	15	19	23		
4	9	14	19	24	29	34	39

Page No. 127

20	18	16	14	12	10	8	6	4
30	27	24	21	18	15			
50	45	40	35	30	25			
100	90	80	70	60	50			
2	4	6	8	10	12	14		14 eyes
5	10	15	20	25	30	35		35 fingers

MCQ - XI

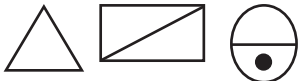
1. 30 2. 35 3. 2 4. 30 5.  6. 

Achievement Record - I

- a. 5 b. 3 c. 2 d. 2 e. 8 f. 1
- (a) equal to (b) less than (c) more than
- 87 46 92 77 5. Thirty-six Sixteen Ninety-one Eighty
- 44 62 73 25
- 3 tens 6 ones 1 ten 5 ones 4 tens 8 ones
 7 tens 0 ones 9 tens 2 ones 6 tens 4 ones

8. 90 74 72 44
9. 4 8
- 6 12
- 8 16
10. (a) $56 - 12 = 44$ (b) $25 + 18 = 43$
11. (a) $6 \times 3 = 18$ (b) $10 \div 5 = 2$

Achievement Record - II

1. **2** tens **4** ones **5** tens **8** ones **9** tens **7** ones
- Twenty-four** **Fifty-eight** **Ninety-seven**
2. 3 4. 92 45 63 57
5. (a) 91, 94, 97, 100 (b) 60, 55, 50, 45 (c) 70, 80, 90, 100
6. 
7. **4** o' clock **9** o' clock 9. (a) 8 (b) 2 (c) 6 (d) 10 (e) 2
10. (a) 2 (b) 5 (c) 5 (d) 8 11. (a) 15 (b) 5 (c) 20 (d) 3
12. (a) $88 - 6 = 82$ Her brother has 82 bottle caps.
- (b) $23 + 12 = 35$ There are 35 teachers.
- (c) $87 - 39 = 48$ There are 48 cookies.
- (d) $75 + 19 = 94$ There are 94 children.

