

For students of 8 years to 11 years    150 hours program    32 Lessons and Practices

## Answers book    Basic Math-1 App Program



- Increases INTEREST towards math
- Enhances SELF-CONFIDENCE
- Increases SPEAD in doing math
- 144 video clips in App
- Pre-Remedy Exam in App for every lesson, before training
- Post-Remedy Exam In App for every lesson, after training with Videos and Printable material for practice
- 6 Base Line Tests in App to confirm the need of this program
- 6 End Line Tests in App to confirm the extent of final change in the student's knowledge and speed.

\*Terms and Conditions Apply\*

Student Name:

Class:

Father/Mother Name:

Contact number, in case this book is lost:

**Lesson : 1**

- (1) Rose = Rose (7) Square  $\neq$  Rectangle (12) Square is equal to Square  
 (2) Rose  $\neq$  Jasmine (8) Rectangle > Square (13) Square is not equal to Square  
 (3) Sunflower > Jasmine (9) Rectangle < Square (14) Square is not equal to Rectangle  
 (4) Jasmine < Sunflower (10) Square < Rectangle (15) Rectangle is greater than Square  
 (5) Square = Square (11) Square > Rectangle (16) Rectangle is less than Square  
 (6) Square  $\neq$  Square (17) Square is less than Rectangle  
 (18) Square is greater than Rectangle

- (19) 8 = 8  
 (20) 8  $\neq$  1  
 (21) 8 > 5  
 (22) 5 < 8  
 (23) 6 = 6  
 (24) 6  $\neq$  2  
 (25) 6 > 1  
 (26) 1 < 6  
 (27) "is equal to"  
 (28) "is not equal to"  
 (29) "is not equal to"  
 (30) "is equal to"  
 (31) "is greater than"  
 (32) "is less than"  
 (33) "is less than"  
 (34) "is greater than"

- (35) F (36) T  
 (37) T (38) F  
 (39) T (40) F  
 (41) F (42) T

**PRACTICE : 1.1**

- (1) F (2) F  
 (3) F (4) F  
 (5) F  
 (6) T (7) T  
 (8) T (9) T  
 (10) T  
 (11) T (12) T  
 (13) T (14) T  
 (15) T (16) T  
 (17) F (18) F  
 (19) F (20) F  
 (21) F (22) F

**PRACTICE : 1.2**

- (23) T (24) T  
 (25) T (26) T  
 (27) T (28) T  
 (29) T  
 (30) F (31) F  
 (32) F (33) F  
 (34) F (35) F  
 (36) F (37) F  
 (38) F

**PRACTICE : 1.3**

- (39) F (40) F  
 (41) F (42) F  
 (43) F (44) F  
 (45) T (46) T  
 (47) T (48) T  
 (49) T (50) T  
 (51) T (52) T

**Lesson:2**

Table : 1			
10	9	8	7
0	0	0	0
10	9	8	7
6	5	4	3
0	0	0	0
6	5	4	3
2	1	0	
0	0	0	
2	1	0	

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

**Practice : 2**                      **Not Required**

**Lesson:3**

- |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|
| (1) 1  | (2) 9  | (3) 2  | (25) 1 | (26) 5 | (27) 1 |
| (4) 8  | (5) 3  | (6) 7  | (28) 6 | (29) 1 | (30) 7 |
| (7) 4  | (8) 6  | (9) 5  | (31) 1 | (32) 1 | (33) 8 |
| (10) 9 | (11) 1 | (12) 8 | (34) 2 | (35) 3 | (36) 4 |
| (13) 2 | (14) 7 | (15) 7 | (37) 5 | (38) 6 | (39) 7 |
| (16) 6 | (17) 4 | (18) 5 | (40) 8 | (41) 9 | (42) 2 |
| (19) 1 | (20) 1 | (21) 2 | (43) 3 | (44) 4 | (45) 5 |
| (22) 1 | (23) 3 | (24) 4 | (46) 6 | (47) 7 | (48) 8 |

**Practice : 3**                      **Not Required**

**Lesson: 4**

- |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|
| (1) 2  | (2) 2  | (3) 2  | (49) 6 | (50) 3 | (51) 6 |
| (4) 4  | (5) 3  | (6) 2  | (52) 3 | (53) 9 | (54) 9 |
| (7) 3  | (8) 2  | (9) 4  | (55) 4 | (56) 4 | (57) 4 |
| (10) 2 | (11) 4 | (12) 2 | (58) 8 | (59) 5 | (60) 4 |
| (13) 6 | (14) 6 | (15) 5 | (61) 5 | (62) 4 | (63) 9 |
| (16) 2 | (17) 5 | (18) 2 | (64) 9 |        |        |
| (19) 7 | (20) 7 | (21) 6 |        |        |        |
| (22) 2 | (23) 6 | (24) 2 |        |        |        |
| (25) 8 | (26) 8 | (27) 7 |        |        |        |
| (28) 2 | (29) 7 | (30) 2 |        |        |        |
| (31) 9 | (32) 9 | (33) 3 |        |        |        |
| (34) 3 | (35) 3 | (36) 6 |        |        |        |
| (37) 4 | (38) 3 | (39) 4 |        |        |        |
| (40) 3 | (41) 7 | (42) 7 |        |        |        |
| (43) 5 | (44) 3 | (45) 5 |        |        |        |
| (46) 3 | (47) 8 | (48) 8 |        |        |        |

**Practice : 4**                      **Not Required**

**Lesson: 5**

- (1) 14
- (2) 11
- (3) 15
- (4) 14
- (5) 18
- (6) 16
- (7) 15
- (8) 14
- (9) 15
- (10) 12

**Practice : 5**  
Not Required

**Lesson:6**

- (1) 41
- (2) 62
- (3) 93
- (4) 84
- (5) 55
- (6) 36
- (7) 27
- (8) 61
- (9) 42
- (10) 31

**Practice : 6**  
Not Required

**Lesson:7**

- (1) 5
- (2) 9
- (3) 8
- (4) 8
- (5) 4
- (6) 8
- (7) 4
- (8) 6
- (9) 9
- (10) 4

**Practice : 7**  
Not Required

**Lesson:8**

- (1) 49
- (2) 29
- (3) 29
- (4) 78
- (5) 68
- (6) 47
- (7) 77
- (8) 69
- (9) 48

**Practice : 8**  
Not Required

**Lesson:9**

- (1) 0      (2) 0      (3) 0
- (4) 0      (5) 0      (6) 0
- (7) 8      (8) 3      (9) 7
- (10) 6      (11) 5      (12) 9
- (13) 88      (14) 33      (15) 77
- (16) 66      (17) 55      (18) 99
- (19) 80      (20) 30      (21) 70
- (22) 60      (23) 50      (24) 90
- (25) 800      (26) 300      (27) 700
- (28) 600      (29) 500      (30) 900

**Practice : 9** Not Required

**Lesson & Practice : 10** Not Required

**Lesson:11**

- |  |  |
|--|--|
| (1) Digit in TEN's place : 2   | Digit in ONE's place : 9   |
| (2) Digit in HUNDRED's place : 1<br>Digit in ONE's place : 8   | Digit in TEN's place : 3   |
| (3) Digit in ONE's place : 8<br>Digit in TEN's place : 2   | Digit in HUNDRED's place : 0<br>Digit in THOUSAND's place : 1  |
| (4) Digit in ONE's place : 0<br>Digit in TEN's place : 8<br>Digit in THOUSAND's place : 5                                    | Digit in HUNDRED's place : 7<br>Digit in TEN THOUSAND's place : 1  |
| (5) Digit in ONE's place : 4<br>Digit in TEN THOUSAND's place : 2<br>Digit in TEN's place : 3                                | Digit in LAKHS's place : 9<br>Digit in HUNDRED's place : 0<br>Digit in THOUSAND's place : 5                                  |
| (6) Digit in ONE's place : 2<br>Digit in LAKHS's place : 8<br>Digit in HUNDRED's place : 4<br>Digit in TEN LAKHS's place : 1 | Digit in THOUSAND's place : 7<br>Digit in TEN's place : 0<br>Digit in TEN THOUSAND's place : 3                               |
| (7) Digit in TEN LAKHS's place : 0<br>Digit in LAKH's place : 3<br>Digit in ONE's place : 4<br>Digit in THOUSAND's place : 8 | Digit in TEN's place : 5<br>Digit in HUNDREDS's place : 7<br>Digit in TEN THOUSAND's place : 9<br>Digit in CRORE's place : 1 |
| (8) H  |  |
| (9) E  |  |
| (10) F   |  |
| (11) H   |  |
| (12) A   |  |
| (13) G   |  |
| (14) B   |  |
| (15) C   |  |

**Practice:11.1**

- |  |  |
|--|--|
| (1) Digit in ONE's place : 1                                   | Digit in TEN's place : 8                                 |
| (2) Digit in TEN's place : 3                                   | Digit in ONE's place : 6                                 |
| (3) Digit in ONE's place : 0                                   | Digit in TEN's place : 5                                 |
| (4) Digit in TEN's place : 9                                   | Digit in ONE's place : 3                                 |
| (5) Digit in TEN's place : 6<br>Digit in HUNDREDS's place : 5  | Digit in ONE's place : 8                                 |
| (6) Digit in ONE's place : 1<br>Digit in HUNDRED's place : 3   | Digit in TEN's place : 7                                 |
| (7) Digit in ONE's place : 3<br>Digit in TEN's place : 0       | Digit in HUNDRED's place : 4                             |
| (8) Digit in THOUSAND 's place : 5<br>Digit in ONE's place : 7 | Digit in TEN's place : 6<br>Digit in HUNDRED's place : 4 |

- (9) Digit in ONE's place : 1  
Digit in THOUSAND's place : 9
- (10) Digit in TEN's place : 5  
Digit in ONE's place : 8
- (11) Digit in ONE's place : 6  
Digit in THOUSAND's place : 7
- (12) Digit in TEN's place is : 0  
Digit in HUNDRED's place : 3
- (13) Digit in HUNDRED's place : 7  
Digit in TEN's place : 5
- (14) Digit in ONE's place : 5  
Digit in TEN THOUSAND's place : 2  
Digit in HUNDRED's place : 3
- (15) Digit in HUNDRED's place : 1  
Digit in TEN THOUSAND's place : 7  
Digit in ONE's place : 3
- (16) Digit in LAKHS's place : 6  
Digit in TEN THOUSAND's place : 1  
Digit in THOUSAND's place : 8
- (17) Digit in TEN THOUSAND's place : 2  
Digit in ONE's place : 6  
Digit in HUNDRED's place : 1
- (18) Digit in HUNDRED's place : 8  
Digit in TEN LAKHS's place : 9  
Digit in LAKHS's place : 2  
Digit in ONE's place : 5
- (19) Digit in THOUSAND's place : 3  
Digit in ONE's place : 7  
Digit in TEN LAKHS's place : 5  
Digit in TEN THOUSAND's place : 0
- (20) Digit in LAKHS's place : 9  
Digit in ONE's place : 8  
Digit in TEN's place : 2  
Digit in TEN LAKHS's place : 1
- (21) Digit in TEN's place : 0  
Digit in THOUSAND's place : 3  
Digit in LAKH's place : 7  
Digit in TEN THOUSAND's place : 1
- (22) Digit in THOUSAND's place : 3  
Digit in TEN's place : 6  
Digit in TEN THOUSAND's place : 5  
Digit in TEN LAKH's place : 2
- Digit in HUNDRED's place : 2  
Digit in TEN's place : 3  
Digit in THOUSAND's place : 4  
Digit in HUNDRED's place : 0  
Digit in HUNDRED's place : 1  
Digit in TEN's place : 5  
Digit in THOUSAND's place : 4  
Digit in ONE's place : 2  
Digit in ONE's place : 0  
Digit in THOUSAND's place : 2  
Digit in THOUSAND's place : 4  
Digit in TEN's place : 9  
Digit in THOUSAND's place : 5  
Digit in TEN's place : 0  
Digit in HUNDRED's place : 7  
Digit in TEN's place : 5  
Digit in TEN's place : 9  
Digit in THOUSAND's place : 0  
Digit in LAKHS's place : 4  
Digit in TEN THOUSAND's place : 3  
Digit in TEN's place : 1  
Digit in THOUSAND's place : 7  
Digit in LAKHS's place : 1  
Digit in HUNDRED's place : 2  
Digit in TEN's place : 6  
Digit in HUNDRED's place : 0  
Digit in TEN THOUSAND's place : 4  
Digit in THOUSAND's place : 5  
Digit in TEN LAKHS's place : 5  
Digit in ONE's place : 9  
Digit in HUNDRED's place : 4  
Digit in ONE's place : 0  
Digit in LAKH's place : 7  
Digit in HUNDRED's place : 1

- |   |   |
|---|---|
| (23) Digit in TEN THOUSAND's place : 7<br>Digit in TEN LAKHS's place : 3<br>Digit in THOUSAND's place : 0<br>Digit in ONE's place : 5   | Digit in HUNDREAD's place : 1<br>Digit in TEN's place : 6<br>Digit in LAKHS's place : 2   |
| (24) Digit in LAKHS's place : 4<br>Digit in HUNDREAD's place : 9<br>Digit in TEN LAKHS's place : 7<br>Digit in TEN THOUSAND's place : 3 | Digit in THOUSAND's place : 2<br>Digit in ONE's place : 6<br>Digit in TEN's place : 0   |
| (25) Digit in TEN's place : 6<br>Digit in LAKH's place : 5<br>Digit in TEN LAKHS's place : 1<br>Digit in CRORE's place : 2              | Digit in THOUSAND's place : 8<br>Digit in HUNDREDS's place : 0<br>Digit in ONE's place : 3<br>Digit in TEN THOUSAND's place : 7 |
| (26) Digit in THOUSAND's place : 2<br>Digit in LAKH's place : 4<br>Digit in TEN LAKHS's place : 5<br>Digit in ONE's place : 0           | Digit in CRORE's place : 7<br>Digit in HUNDREDS's place : 8<br>Digit in TEN's place : 1<br>Digit in TEN THOUSAND's place : 3    |
| (27) Digit in HUNDREDS's place : 6<br>Digit in LAKH's place : 7<br>Digit in ONE's place : 5<br>Digit in TEN THOUSAND's place : 4        | Digit in TEN's place : 1<br>Digit in TEN LAKHS's place : 9<br>Digit in THOUSAND's place : 3<br>Digit in CRORE's place : 2       |
| (28) Digit in ONE's place : 4<br>Digit in LAKH's place : 3<br>Digit in HUNDREDS's place : 7<br>Digit in TEN THOUSAND's place : 9        | Digit in THOUSAND's place : 8<br>Digit in CRORE's place : 1<br>Digit in TEN LAKHS's place : 0<br>Digit in TEN's place : 5       |
| (29) Digit in TEN LAKHS's place : 5<br>Digit in LAKH's place : 8<br>Digit in ONE's place : 3<br>Digit in THOUSAND's place : 4           | Digit in TEN's place : 6<br>Digit in HUNDREDS's place : 0<br>Digit in TEN THOUSAND's place : 7<br>Digit in CRORE's place : 2    |
| (30) Digit in TEN's place : 2<br>Digit in LAKH's place : 7<br>Digit in TEN LAKHS's place : 1<br>Digit in CRORE's place : 4              | Digit in THOUSAND's place : 5<br>Digit in HUNDREDS's place : 0<br>Digit in ONE's place : 8<br>Digit in TEN THOUSAND's place : 9 |

**Practice: 11.2**

- |        |        |        |
|--------|--------|--------|
| (31) F | (40) D | (49) G |
| (32) F | (41) A | (50) D |
| (33) H | (42) H | (51) B |
| (34) B | (43) E | (52) B |
| (35) C | (44) C | (53) G |
| (36) E | (45) A | (54) C |
| (37) A | (46) D |        |
| (38) H | (47) E |        |
| (39) F | (48) G |        |

**Lesson: 12**

- |       |        |        |        |
|-------|--------|--------|--------|
| (1) A | (6) A  | (11) C | (16) C |
| (2) B | (7) C  | (12) C | (17) C |
| (3) A | (8) A  | (13) D |        |
| (4) A | (9) A  | (14) D |        |
| (5) B | (10) A | (15) D |        |

**Practice: 12**

- |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|
| (1) A  | (16) A | (31) C | (46) D | (61) D | (76) C |
| (2) B  | (17) A | (32) D | (47) D | (62) D | (77) D |
| (3) B  | (18) A | (33) B | (48) C | (63) B |        |
| (4) B  | (19) B | (34) B | (49) A | (64) C |        |
| (5) A  | (20) A | (35) A | (50) C | (65) A |        |
| (6) A  | (21) B | (36) A | (51) B | (66) A |        |
| (7) A  | (22) C | (37) D | (52) C | (67) B |        |
| (8) A  | (23) C | (38) C | (53) D | (68) D |        |
| (9) B  | (24) B | (39) C | (54) C | (69) C |        |
| (10) B | (25) A | (40) C | (55) A | (70) D |        |
| (11) A | (26) A | (41) A | (56) A | (71) A |        |
| (12) B | (27) B | (42) B | (57) B | (72) C |        |
| (13) A | (28) B | (43) D | (58) C | (73) D |        |
| (14) A | (29) C | (44) D | (59) A | (74) B |        |
| (15) C | (30) B | (45) B | (60) A | (75) D |        |

**Lesson: 13**

- |                     |                               |
|---------------------|-------------------------------|
| (1a) 6ones          | (4d) 3                        |
| (1b) 6              | (5a) 9 ten thousands          |
| (1c) Six            | (5b) 90,000                   |
| (1d) 6              | (5c) Ninty thousand           |
| (2a) 7 tens         | (5d) 9                        |
| (2b) 70             | (6a) No lakhs 'or' Zero lakhs |
| (2c) Seventy        | (6b) 0                        |
| (2d) 7              | (6c) Zero                     |
| (3a) 2 hundreds     | (6d) Zero                     |
| (3b) 200            | (7a) 5 ten lakhs              |
| (3c) Two hundred    | (7b) 50,00,000                |
| (3d) 2              | (7c) Fifty lakhs              |
| (4a) 3 thousands    | (7d) 5                        |
| (4b) 3,000          | (8a) 8 crores                 |
| (4c) Three thousand | (8b) 8,00,00,000              |
|                     | (8c) Eight crores             |
|                     | (8d) 8                        |



**Practice:13**

1) 4	14) 50	27) 2000	40) 200000	52) 80000000
2) 6	15) 200	28) 20000	41) 100000	53) 60000000
3) 8	16) 600	29) 60000	42) 900000	54) 20000000
4) 9	17) 400	30) 80000	43) 4000000	55) 10000000
5) 3	18) 100	31) 0	44) 1000000	56) 90000000
6) 2	19) 500	32) 70000	45) 6000000	57) 50000000
7) 7	20) 700	33) 40000	46) 2000000	58) 30000000
8) 30	21) 7000	34) 50000	47) 9000000	
9) 60	22) 5000	35) 0	(***) 0	
10) 40	23) 3000	36) 300000	48) 8000000	
11) 70	24) 1000	37) 500000	49) 3000000	
12) 10	25) 9000	38) 800000	50) 40000000	
13) 80	26) 0	39) 700000	51) 70000000	

**Practice:13 continuation**

59) 2	60) 0
61) 1	62) 0
63) 9	64) 1
65) 0	66) 1
67) 3	68) 2
69) 6	70) 2
71) 6	72) 2
73) 9	74) 7
75) 2	76) 7
77) 1	78) 2
79) 9	80) 7

**Lesson:14**

- (1)  $30 + 2$
- (2)  $600 + 10 + 5$
- (3)  $7,000 + 800 + 5$
- (4)  $80,000 + 20 + 1$
- (5)  $8,00,000 + 20,000 + 9,000 + 100 + 40 + 7$
- (6)  $60,00,000 + 7,00,000 + 10,000 + 2,000 + 300 + 40 + 5$
- (7)  $10,00,000 + 5,00,000 + 2,000 + 70 + 8$
- (8)  $5,00,00,000 + 60,00,000 + 7,00,000 + 30,000 + 2,000 + 100 + 90 + 8$

**Practice:14**

- (1)  $70 + 7$
- (2) 20
- (3)  $300 + 2$
- (4)  $400 + 40 + 4$
- (5)  $9,000 + 40 + 1$
- (6)  $2,000 + 500 + 70 + 4$
- (7)  $5,000 + 500 + 50 + 5$
- (8)  $40,000 + 1,000 + 300 + 20 + 9$
- (9)  $90,000 + 9,000 + 900 + 90 + 9$
- (10)  $90,000 + 2,000 + 10 + 5$
- (11)  $30,000 + 100 + 20 + 7$
- (12)  $7,00,000 + 70,000 + 7,000 + 700 + 70 + 7$

- (13)  $1,00,000 + 20,000 + 9,000 + 50 + 7$   
(14)  $9,00,000 + 40,000 + 3,000 + 80$   
(15)  $7,00,000 + 2,000 + 10$   
(16)  $1,00,00,000 + 10,00,000 + 1,00,000 + 10,000 + 1,000 + 100 + 10 + 1$   
(17)  $60,00,000 + 6,00,000 + 60,000 + 6,000 + 600 + 60 + 6$   
(18)  $10,00,000 + 20,000 + 10 + 3$   
(19)  $40,00,000 + 3,00,000 + 90,000 + 200 + 10$   
(20)  $50,00,000 + 9,00,000 + 30,000 + 2,000 + 100 + 40 + 8$   
(21)  $4,00,00,000 + 50,00,000 + 4,00,000 + 70,000 + 2,000 + 10 + 5$   
(22)  $5,00,00,000 + 90,00,000 + 2,00,000 + 70,000 + 2,000 + 9$   
(23)  $1,00,00,000 + 90,00,000 + 7,00,000 + 70,000 + 3,000 + 10$

**Lesson: 15**

- (1) Four lakhs  
(2) Four lakhs five thousand  
(3) Four lakh fifty thousand  
(4) Four lakh six hundred  
(5) Four crore fifty lakh  
(6) Four crore fifty lakh six thousand  
(7) Four crore fifty lakh sixty thousand  
(8) Four crore fifty lakh six hundred  
(9) Four crore fifty lakh sixty  
(10) Four crore fifty lakh six  
(11) Four crore fifty lakh six thousand seventy  
(12) Four crore fifty lakh six thousand seven hundred  
(13) Four crore fifty lakh six thousand seven  
(14) Four crore five lakh six thousand seventy  
(15) Four crore five lakh six thousand seven hundred  
(16) Four crore five lakh six thousand seven  
(17) One crore twenty three lakh forty four thousand five hundred sixty seven

**Practice: 15**

- (1) Four lakh  
(2) Four lakh five thousand  
(3) Four lakh fifty thousand  
(4) Four lakh six hundred  
(5) Four lakh sixty  
(6) Four lakh six  
(7) Four lakh five thousand sixty  
(8) Four lakh five thousand six hundred  
(9) Four lakh five thousand six  
(10) Forty lakh

- (11) Forty lakh six thousand
- (12) Forty lakh sixty thousand
- (13) Forty lakh six hundred
- (14) Forty lakh sixty
- (15) Forty lakh six
- (16) Forty lakh five thousand sixty
- (17) Forty lakh five thousand six hundred
- (18) Forty lakh five thousand six
- (19) Four crore
- (20) Forty crore
- (21) Forty crore five lakh
- (22) Forty crore five lakh six thousand
- (23) Forty crore five lakh sixty thousand
- (24) Forty crore five lakh six hundred
- (25) Forty crore five lakh sixty
- (26) Forty crore five lakh six
- (27) Forty crore fifty lakh
- (28) Forty crore fifty lakh six thousand
- (29) Forty crore fifty lakh sixty thousand
- (30) Forty crore fifty lakh six hundred
- (31) Forty crore fifty lakh sixty
- (32) Forty crore fifty lakh six
- (33) Forty crore fifty lakh six thousand seventy
- (34) Forty crore fifty lakh six thousand seven hundred
- (35) Forty crore fifty lakh six thousand seven
- (36) Forty crore five lakh six thousand seventy
- (37) Forty crore five lakh six thousand seven hundred
- (38) Forty crore five lakh six thousand seven
- (39) Four crore five lakh
- (40) Four crore five lakh six thousand
- (41) Four crore five lakh sixty thousand
- (42) Four crore five lakh six hundred
- (43) Four crore five lakh sixty
- (44) Four crore five lakh six
- (45) Four crore fifty lakh
- (46) Four crore fifty lakh six thousand
- (47) Four crore fifty lakh sixty thousand
- (48) Four crore fifty lakh six hundred
- (49) Four crore fifty lakh sixty
- (50) Four crore fifty lakh six

- (51) Four crore fifty lakh six thousand seventy  
 (52) Four crore fifty lakh six thousand seven hundred  
 (53) Four crore fifty lakh six thousand seven  
 (54) Four crore five lakh six thousand seventy  
 (55) Four crore five lakh six thousand seven hundred  
 (56) Four crore five lakh six thousand seven

**Lesson:16**

- |                          |                           |
|--------------------------|---------------------------|
| (1) 4, 0 5, 0 0 0        | (9) 40, 5 0, 0 6, 0 7 0   |
| (2) 4, 5 0, 0 6, 0 0 7   | (10) 4 0, 5 0, 0 6, 7 0 0 |
| (3) 4, 0 5, 0 6 0        | (11) 40, 5 0, 0 6, 0 0 7  |
| (4) 4 0, 6 0, 0 0 0      | (12) 4 0, 0 5, 0 6, 0 7 0 |
| (5) 4 0, 0 0, 6 0 0      | (13) 4, 5 0, 0 6, 7 0 0   |
| (6) 4 0, 0 0, 0 0 6      | (14) 4, 0 5, 0 6, 0 7 0   |
| (7) 4, 0 0, 0 0, 0 0 0   | (15) 4, 0 5, 0 6, 7 0 0   |
| (8) 4 0, 0 5, 0 0, 0 0 0 | (16) 4, 0 5, 0 6, 0 0 7   |

**Practice:16**

- |                           |                           |                           |
|---------------------------|---------------------------|---------------------------|
| (1) 4 0, 0 5, 6 0, 0 0 0  | (25) 4, 0 0, 0 6 0        | (49) 4, 0 5, 0 0, 0 0 6   |
| (2) 4, 0 5, 0 6 0         | (26) 4, 0 0, 0 0 6        | (50) 4, 5 0, 0 0, 0 0 0   |
| (3) 4 0, 0 0, 0 0 0       | (27) 4 0, 5 0, 0 0, 0 0 0 | (51) 4, 5 0, 0 6, 0 0 0   |
| (4) 4 0, 0 0, 0 0 6       | (28) 4 0, 5 0, 0 6, 0 0 0 | (52) 4, 5 0, 0 6, 0 7 0   |
| (5) 4, 0 5, 6 0 0         | (29) 4 0, 5 0, 6 0, 0 0 0 | (53) 4 0, 5 0, 0 6, 0 7 0 |
| (6) 4 0, 0 0, 0 6 0       | (30) 4 0, 0 5, 0 6, 0 7 0 | (54) 4 0, 5 0, 0 6, 7 0 0 |
| (7) 4, 0 5, 0 0 6         | (31) 4 0, 0 5, 0 6, 7 0 0 | (55) 4 0, 5 0, 0 6, 0 0 7 |
| (8) 4 0, 0 5, 0 6 0       | (32) 4, 5 0, 6 0, 0 0 0   | (56) 4, 5 0, 0 6, 7 0 0   |
| (9) 4 0, 6 0, 0 0 0       | (33) 4, 5 0, 0 0, 6 0 0   |                           |
| (10) 4 0, 0 5, 6 0 0      | (34) 4, 5 0, 0 0, 0 6 0   |                           |
| (11) 4 0, 0 5, 0 0 6      | (35) 4, 5 0, 0 0, 0 0 6   |                           |
| (12) 4 0, 0 0, 6 0 0      | (36) 4 0, 0 5, 0 6, 0 0 7 |                           |
| (13) 4, 0 0, 0 0, 0 0 0   | (37) 4, 0 5, 0 0, 0 0 0   |                           |
| (14) 4 0, 0 0, 0 0, 0 0 0 | (38) 4, 0 5, 0 6, 0 0 0   |                           |
| (15) 4 0, 0 0, 6 0 0      | (39) 4, 0 5, 6 0, 0 0 0   |                           |
| (16) 4 0, 0 5, 0 0, 0 0 0 | (40) 4, 0 5, 0 0, 6 0 0   |                           |
| (17) 4 0, 0 5, 0 0, 0 0 6 | (41) 4 0, 5 0, 0 0, 6 0 0 |                           |
| (18) 4, 0 0, 0 0 0        | (42) 4, 5 0, 0 6, 0 0 7   |                           |
| (19) 4, 0 5, 0 0 0        | (43) 4, 0 5, 0 6, 0 7 0   |                           |
| (20) 4, 5 0, 0 0 0        | (44) 4, 0 5, 0 6, 7 0 0   |                           |
| (21) 4 0, 0 5, 0 6, 0 0 0 | (45) 4, 0 5, 0 6, 0 0 7   |                           |
| (22) 4 0, 0 5, 0 0, 6 0 0 | (46) 4 0, 5 0, 0 0, 0 6 0 |                           |
| (23) 4 0, 0 5, 0 0, 0 6 0 | (47) 4 0, 5 0, 0 0, 0 0 6 |                           |
| (24) 4, 0 0, 6 0 0        | (48) 4, 0 5, 0 0, 0 6 0   |                           |

**Lesson: 17**

1 less (or)  
just before.

Say what you want to  
write before writing.

While writing use commas

- 1) 1 1
- 2) 1 2 2
- 3) 1, 2 3 3
- 4) 12, 3 4 4
- 5) 1, 23, 4 5 5
- 6) 12, 34, 5 6 6
- 7) 1, 23, 45, 6 7 7

**Lesson : 17**

- 8) 20
- 9) 320
- 10) 4, 320
- 11) 54, 320
- 12) 6, 54, 320
- 13) 76, 54, 320
- 14) 8, 76, 54, 320

**Lesson : 17**

- 15) 4, 32, 15, 6 7 7
- 16) 43, 21, 5 6 6
- 17) 4, 32, 15 5
- 18) 43, 21 4
- 19) 4, 320
- 20) 431
- 21) 42

**Lesson : 17**

- 22) 1, 23, 48, 7 6 4
- 23) 12, 34, 8 7 5
- 24) 1, 23, 48 6
- 25) 12, 34 7
- 26) 1, 23 3
- 27) 12 2
- 28) 11

**Lesson : 17**

- 29) 87
- 30) 887
- 31) 8, 887
- 32) 88, 887
- 33) 8, 88, 887
- 34) 88, 88, 887
- 35) 8, 88, 88, 887

**Table: 1**

Put commas, right to left  
and read aloud

Say what you want  
to write before writing.

While writing use commas

- 12
- 123
- 1, 23 4
- 12, 34 5
- 1, 23, 4 5 6
- 12, 34, 5 6 7
- 1, 23, 45, 6 7 8

**Table: 2**

- 21
- 321
- 4, 321
- 54, 321
- 6, 54, 321
- 76, 54, 321
- 8, 76, 54, 321

**Table: 3**

- 4, 32, 15, 6 7 8
- 43, 21, 5 6 7
- 4, 32, 15 6
- 43, 21 5
- 4, 321
- 432
- 43

**Table: 4**

- 1, 23, 48, 7 6 5
- 12, 34, 8 7 6
- 1, 23, 48 7
- 12, 34 8
- 1, 23 4
- 12 3
- 12

**Table: 5**

- 88
- 888
- 8, 888
- 88, 888
- 8, 88, 888
- 88, 88, 888
- 8, 88, 88, 888

1 more (or)  
just after.

Say what you want  
to write before writing.

While writing use commas

- 1 3
- 1 2 4
- 1, 2 3 5
- 12, 3 4 6
- 1, 23, 4 5 7
- 12, 34, 5 6 8
- 1, 23, 45, 6 7 9

- 22
- 322
- 4, 322
- 54, 322
- 6, 54, 322
- 76, 54, 322
- 8, 76, 54, 322

- 4, 32, 15, 6 7 9
- 43, 21, 5 6 8
- 4, 32, 15 7
- 43, 21 6
- 4, 322
- 433
- 44

- 1, 23, 48, 7 6 6
- 12, 34, 8 7 7
- 1, 23, 48 8
- 12, 34 9
- 1, 23 5
- 12 4
- 13

- 89
- 889
- 8, 889
- 88, 889
- 8, 88, 889
- 88, 88, 889
- 8, 88, 88, 889

**Lesson : 17**

- 36) 10  
 37) 110  
 38) 1,110  
 39) 11,110  
 40) 1,11,110  
 41) 11,11,110  
 42) 1,11,11,110

**Lesson : 17**

- 43) 69  
 44) 699  
 45) 6,999  
 46) 69,999  
 47) 6,99,999  
 48) 69,99,999  
 49) 6,99,99,999

**Lesson : 17**

- 50) 98  
 51) 998  
 52) 9,998  
 53) 99,998  
 54) 9,99,998  
 55) 99,99,998  
 56) 9,99,99,998

**Practice: 17**

- 1) 10  
 2) 120  
 3) 1,230  
 4) 12,340  
 5) 1,23,450  
 6) 12,34,560  
 7) 1,23,45,670

**Practice: 17**

- 8) 17  
 9) 227  
 10) 3,327  
 11) 44,327  
 12) 5,54,327  
 13) 66,54,327  
 14) 7,76,54,327

**Practice: 17**

- 15) 5,32,15,670  
 16) 63,21,560  
 17) 7,32,150  
 18) 83,210  
 19) 9,320  
 20) 230  
 21) 60

**Table: 6**

- 11  
 111  
 1,111  
 11,111  
 1,11,111  
 11,11,111  
 1,11,11,111

**Table: 7**

- 70  
 700  
 7,000  
 70,000  
 7,00,000  
 70,00,000  
 7,00,00,000

**Table: 8**

- 99  
 999  
 9,999  
 99,999  
 9,99,999  
 99,99,999  
 9,99,99,999

**Table: 1**

- 11  
 121  
 1,231  
 12,341  
 1,23,451  
 12,34,561  
 1,23,45,671

**Table: 2**

- 18  
 228  
 3,328  
 44,328  
 5,54,328  
 66,54,328  
 7,76,54,328

**Table: 3**

- 5,32,15,671  
 63,21,561  
 7,32,151  
 83,211  
 9,321  
 231  
 61

- 12  
 112  
 1,112  
 11,112  
 1,11,112  
 11,11,112  
 1,11,11,112

- 71  
 701  
 7,001  
 70,001  
 7,00,001  
 70,00,001  
 7,00,00,001

- 100  
 1,000  
 10,000  
 1,00,000  
 10,00,000  
 1,00,00,000  
 10,00,00,000

- 12  
 122  
 1,232  
 12,342  
 1,23,452  
 12,34,562  
 1,23,45,672

- 19  
 229  
 3,329  
 44,329  
 5,54,329  
 66,54,329  
 7,76,54,329

- 5,32,15,672  
 63,21,562  
 7,32,152  
 83,212  
 9,322  
 232  
 62

**Practice: 17**

- 22) 9,23,48,768  
 23) 92,34,878  
 24) 9,23,488  
 25) 92,348  
 26) 9,238  
 27) 928  
 28) 98

**Practice: 17**

- 29) 65  
 30) 665  
 31) 6,665  
 32) 66,665  
 33) 6,66,665  
 34) 66,66,665  
 35) 6,66,66,665

**Practice: 17**

- 36) 10  
 37) 100  
 38) 1,990  
 39) 10,000  
 40) 1,99,990  
 41) 10,00,000  
 42) 1,99,99,990

**Practice: 17**

- 43) 19  
 44) 199  
 45) 1,999  
 46) 19,999  
 42) 1,99,999  
 48) 19,99,999  
 49) 1,99,99,999

**Practice: 17**

- 50) 98  
 51) 988  
 52) 9,888  
 53) 98,888  
 54) 9,88,888  
 55) 98,88,888  
 56) 9,88,88,888

**Table: 4**

- 9,23,48,769  
 92,34,879  
 9,23,489  
 92,349  
 9,239  
 929  
 99  
 9,23,48,770  
 92,34,880  
 9,23,490  
 92,350  
 9,240  
 930  
 100

**Table: 5**

- 66  
 666  
 6,666  
 66,666  
 6,66,666  
 66,66,666  
 6,66,66,666  
 66,66,66,667  
 6,66,667  
 66,667  
 6,66,667  
 66,66,667  
 6,66,66,667

**Table: 6**

- 11  
 101  
 1,991  
 10,001  
 1,99,991  
 10,00,001  
 1,99,99,991  
 11  
 102  
 1,992  
 10,002  
 1,99,992  
 10,00,002  
 1,99,99,992

**Table: 7**

- 20  
 200  
 2,000  
 20,000  
 2,00,000  
 20,00,000  
 2,00,00,000  
 20  
 201  
 2,001  
 20,001  
 2,00,001  
 20,00,001  
 2,00,00,001

**Table: 8**

- 99  
 989  
 9,889  
 98,889  
 9,88,889  
 98,88,889  
 9,88,88,889  
 99  
 990  
 9,890  
 98,890  
 9,88,890  
 98,88,890  
 9,88,88,890

Lesson : 18 Table: 1 → Write Forward numbers, every time increasing by "1"  
Write Backward numbers, every time decreasing by "1". While writing use commas.

267	268	269	270	<b>271</b>	272	273	274
275	276	277	278	279	280	281	282
283	284	285	286	287	288	289	290

Lesson : 18 Table: 2 → Write Forward numbers, every time increasing by "1"  
Write Backward numbers, every time decreasing by "1". While writing use commas.

3,083	3,084	3,085	3,086	3,087	3,088	3,089	3,090
3,091	3,092	3,093	3,094	3,095	<b>3,096</b>	3,097	3,098
3,099	3,100	3,101	3,102	3,103	3,104	3,105	3,106

Lesson : 18 Table: 3 → Write Forward numbers, every time increasing by "1"  
Write Backward numbers, every time decreasing by "1". While writing use commas.

20,095	20,096	20,097	20,098	20,099	20,100	20,101	20,102
20,103	20,104	<b>20,105</b>	20,106	20,107	20,108	20,109	20,110
20,111	20,112	20,113	20,114	20,115	20,116	20,117	20,118

Practice : 18 Table: 1 → Write Forward numbers, every time increasing by "1"  
Write Backward numbers, every time decreasing by "1". While writing use commas.

458	459	460	461	<b>462</b>	463	464	465
466	467	468	469	470	471	472	473
474	475	476	477	478	479	480	481



Practice : 18		Table: 2					
289	290	291	292	293	294	295	296
297	298	299	<b>300</b>	301	302	303	304
305	306	307	308	309	310	311	312

Practice : 18		Table: 3					
980	981	982	983	984	985	986	987
988	989	990	<b>991</b>	992	993	994	995
996	997	998	999	1,000	1,001	1,002	1,003

Practice : 18		Table: 4					
<del>8,986</del>	8,987	8,988	8,989	8,990	8,991	8,992	8,993
8,994	8,995	<b>8,996</b>	8,997	8,998	8,999	9,000	9,001
9,002	9,003	9,004	9,005	9,006	9,007	9,008	9,009

Practice : 18		Table: 5					
6,979	6,980	6,981	6,982	6,983	6,984	6,985	6,986
6,987	6,988	6,989	6,990	6,991	6,992	6,993	6,994
6,995	6,996	6,997	6,998	6,999	<b>7,000</b>	7,001	7,002

Practice : 18

Table: 6

50,198	50,199	50,200	50,201	50,202	50,203	50,204	50,205
50,206	50,207	<b>50,208</b>	50,209	50,210	50,211	50,212	50,213
50,214	50,215	50,216	50,217	50,218	50,219	50,220	50,221

Practice : 18

Table: 7

71,669	71,670	71,671	71,672	71,673	71,674	71,675	71,676
71,677	71,678	71,679	71,680	71,681	71,682	71,683	71,684
<b>71,685</b>	71,686	71,687	71,688	71,689	71,690	71,691	71,692

Practice : 18

Table: 8

98,988	98,989	98,990	98,991	98,992	98,993	98,994	98,995
98,996	98,997	98,998	98,999	<b>99,000</b>	99,001	99,002	99,003
99,004	99,005	99,006	99,007	99,008	99,009	99,010	99,011

Practice : 18

Table: 9

88,877	88,878	88,879	88,880	88,881	88,882	88,883	88,884
88,885	88,886	88,887	<b>88,888</b>	88,889	88,890	88,891	88,892
88,893	88,894	88,895	88,896	88,897	88,898	88,899	88,900

**Lesson and Practice: 19**

**Table: 1**

	Write predecessor (or) Just before (or) 1 less Say aloud what you want to write. Please use commas while writing	Given number Put commas and read aloud	Write successor (or) Just after (or) 1 more Say aloud what you want to write. Please use commas while writing
1	1 2 7	1 2 8	
2	9, 1 7 6	9, 1 7 7	
3	7, 5 9 0	7, 5 9 1	
4	7 0, 9 4 8	7 0, 9 4 9	
5	7 0, 9 9 8	7 0, 9 9 9	
6	2 0, 1 6 8	2 0, 1 6 9	
7	9 9, 9 9 8	9 9, 9 9 9	
8	2 1, 9 9 8	2 1, 9 9 9	
9	3 7, 2 4 0	3 7, 2 4 1	
10	2, 5 3, 7 8 8	2, 5 3, 7 8 9	
11	1, 0 0, 0 0 0	1, 0 0, 0 0 1	
12	2, 5 3, 1 9 8	2, 5 3, 1 9 9	
13	9, 6 9, 9 9 8	9, 6 9, 9 9 9	
14	1, 0 2, 9 9 8	1, 0 2, 9 9 9	
15	9, 9 9, 9 9 8	9, 9 9, 9 9 9	
16	5 0, 2 0, 1 8 0	5 0, 2 0, 1 8 1	
17	8 9, 9 0, 9 9 8	8 9, 9 0, 9 9 9	
18	6, 2 3, 4 5, 6 7 8	6, 2 3, 4 5, 6 7 9	
19		1 2 8	1 2 9
20		9, 1 7 7	9, 1 7 8
21		9, 5 0 0	9, 5 0 1
22		3 7, 2 8 0	3 7, 2 8 1
23		3 0, 0 0 0	3 0, 0 0 1
24		1, 0 0, 0 0 1	1, 0 0, 0 0 2
25		7, 5 9, 8 0 0	7, 5 9, 8 0 1
26		5 0, 2 0, 1 8 1	5 0, 2 0, 1 8 2
27		5 4, 3 3, 0 0 0	5 4, 3 3, 0 0 1
28		6, 2 3, 4 5, 6 7 5	6, 2 3, 4 5, 6 7 6

## Lesson and Practice: 19

## Table: 2

29	4 1 9	4 2 0	
30	9, 5 7 9	9, 5 8 0	
31	3 7, 2 7 9	3 7, 2 8 0	
32	6 4, 8 0 9	6 4, 8 1 0	
33	7, 5 9, 8 5 9	7, 5 9, 8 6 0	
34	7, 5 9, 8 0 9	7, 5 9, 8 1 0	
35	2 9, 7 8, 9 5 9	2 9, 7 8, 9 6 0	
36	2, 0 0, 1 0, 7 2 9	2, 0 0, 1 0, 7 3 0	
37		7,509	<b>7,510</b>
38		20,169	<b>20,170</b>
39		70,949	<b>70,950</b>
40		2,53,789	<b>2,53,790</b>
41		29,78,929	<b>29,78,930</b>
42		1,56,90,189	<b>1,56,90,190</b>
	<b>Lesson and Practice: 19</b>	<b>Table: 3</b>	
43	499	500	
44	99	100	
45	9,499	9,500	
46	9,099	9,100	
47	64,099	64,100	
48	7,59,799	7,59,800	
49	89,90,599	89,90,600	
50	1,56,90,099	1,56,90,100	
51		999	<b>1,000</b>
52		7,599	<b>7,600</b>
53		7,099	<b>7,100</b>
54		30,599	<b>30,600</b>
55		2,53,199	<b>2,53,200</b>
56		89,90,699	<b>89,90,700</b>
57		2,00,10,099	<b>2,00,10,100</b>

## Lesson and Practice: 19

## Table: 4

58	<b>84,999</b>	85,000	
59	<b>29,999</b>	30,000	
60	<b>7,58,999</b>	7,59,000	
61	<b>7,52,999</b>	7,53,000	
62	<b>1,92,92,999</b>	1,92,93,000	
63	<b>54,32,999</b>	54,33,000	
64	<b>84,999</b>	85,000	
65		3,999	<b>4,000</b>
66		9,999	<b>10,000</b>
67		70,999	<b>71,000</b>
68		21,999	<b>22,000</b>
69		1,02,999	<b>1,03,000</b>
70		89,90,999	<b>89,91,000</b>
71		1,92,93,999	<b>1,92,94,000</b>
72	<b>7,49,999</b>	7,50,000	
73	<b>54,29,999</b>	54,30,000	
74		99,999	<b>1,00,000</b>
75		9,69,999	<b>9,70,000</b>
76	<b>6,99,999</b>	7,00,000	
77	<b>99,999</b>	1,00,000	
78	<b>53,99,999</b>	54,00,000	
79		9,99,999	<b>10,00,000</b>
80	49,99,999	50,00,000	
81	9,99,999	10,00,000	

**Lesson:20**

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

**Practice:20**

(1) T	(2) T	(64) T	(65) T	(127) F	(128) F
(3) T	(4) T	(66) T	(67) T	(129) F	(130) F
(5) T	(6) T	(68) T	(69) T	(131) F	(132) F
(7) T	(8) T	(70) T	(71) T	(133) F	(134) F
(9) T		(72) T		(135) F	
(10) F	(11) F	(73) T	(74) T	(136) T	(137) T
(12) F	(13) F	(75) T	(76) T	(138) T	(139) T
(14) F	(15) F	(77) T	(78) T	(140) T	(141) T
(16) F	(17) F	(79) T	(80) T	(142) T	(143) T
(18) F		(81) T		(144) T	
(19) F	(20) F	(82) F	(83) F	(145) T	(146) T
(21) F	(22) F	(84) F	(85) F	(147) T	(148) T
(23) F	(24) F	(86) F	(87) F	(149) T	(150) T
(25) F	(26) F	(88) F	(89) F		
(27) F		(90) F		(151) T	(152) T
(28) T	(29) T	(91) F	(92) F	(153) T	
(30) T	(31) T	(93) F	(94) F	(154) F	(155) F
(32) T	(33) T	(95) F	(96) F	(156) F	(157) F
(34) T	(35) T	(97) F	(98) F	(158) F	(159) F
(36) T		(99) F		(160) F	(161) F
(37) T	(38) T	(100) T	(101) T	(162) F	
(39) T	(40) T	(102) T	(103) T	(163) F	(164) F
(41) T	(42) T	(104) T	(105) T	(165) F	(166) F
(43) T	(44) T	(106) T	(107) T	(167) F	(168) F
(45) T		(108) T		(169) F	(170) F
(46) F	(47) F	(109) T	(110) T	(171) F	
(48) F	(49) F	(111) T	(112) T	(172) T	(173) T
(50) F	(51) F	(113) T	(114) T	(174) T	(175) T
(52) F	(53) F	(115) T	(116) T	(176) T	(177) T
(54) F		(117) T		(178) T	(179) T
(55) F	(56) F	(118) F	(119) F	(180) T	
(57) F	(58) F	(120) F	(121) F		
(59) F	(60) F	(122) F	(123) F		
(61) F	(62) F	(124) F	(125) F		
(63) F		(126) F			

**Lesson : 21**

- |       |        |        |
|-------|--------|--------|
| (1) T | (9) T  | (17) F |
| (2) T | (10) T | (18) F |
| (3) T | (11) F | (19) F |
| (4) T | (12) F | (20) F |
| (5) T | (13) F | (21) F |
| (6) T | (14) F | (22) F |
| (7) T | (15) F |        |
| (8) T | (16) F |        |

**Practice:21**

- |        |        |        |
|--------|--------|--------|
| (1) T  | (12) F | (23) F |
| (2) F  | (13) F | (24) F |
| (3) F  | (14) F | (25) T |
| (4) F  | (15) F | (26) T |
| (5) F  | (16) T | (27) F |
| (6) T  | (17) F | (28) F |
| (7) F  | (18) F | (29) F |
| (8) F  | (19) T | (30) F |
| (9) F  | (20) T | (31) F |
| (10) F | (21) T | (32) T |
| (11) T | (22) F |        |

**Lesson : 22**

- |           |        |        |
|-----------|--------|--------|
| (1) True  |        |        |
| (2) False |        |        |
| (3) True  |        |        |
| (4) False |        |        |
| (5) T     | (6) T  |        |
| (7) T     | (8) T  |        |
| (9) F     | (10) F |        |
| (11) F    | (12) F |        |
| (13) T    | (14) T | (15) T |
| (16) T    | (17) T |        |
| (18) F    | (19) F | (20) F |
| (21) F    |        |        |
| (22) T    | (23) T | (24) T |
| (25) T    | (26) T | (27) T |
| (28) T    |        |        |
| (29) F    | (30) F | (31) F |
| (32) F    | (33) F | (34) F |

(35)  $3, 258 > 2, 154$  T (36)  $2, 192 > 2, 190$  T (37)  $8, 641 > 8, 639$  T  
(38)  $3, 758 > 3, 154$  T

(39)  $2, 258 < 3, 154$  T (40)  $5, 374 < 5, 379$  T (41)  $8, 291 < 8, 299$  T  
(42)  $3, 158 < 3, 754$  T

(43)  $3, 258 < 2, 154$  F (44)  $2, 192 < 2, 190$  F (45)  $8, 641 < 8, 639$  F  
(46)  $3, 758 < 3, 154$  F

(47)  $2, 258 > 3, 154$  F (48)  $5, 374 > 5, 379$  F (49)  $8, 291 > 8, 299$  F  
(50)  $3, 158 > 3, 754$  F

(51)  $61, 779 > 60, 779$  T (52)  $5, 321 > 55, 319$  T (53)  $49, 873 > 49, 573$  T  
(54)  $69, 873 > 59, 573$  T (55)  $55, 326 > 55, 324$  T

(56)  $24, 783 < 72, 560$  T (57)  $47, 523 < 54, 433$  T (58)  $95, 642 < 95, 821$  T  
(59)  $65, 497 < 65, 499$  T (60)  $37, 621 < 37, 690$  T

(61)  $61, 779 < 60, 779$  F (62)  $55, 321 < 55, 319$  F (63)  $49, 873 < 49, 573$  F  
(64)  $69, 873 < 59, 573$  F (65)  $5, 326 < 55, 324$  F

(66)  $24, 783 > 72, 560$  F (67)  $47, 523 > 54, 433$  F (68)  $95, 642 > 95, 821$  F  
(69)  $65, 497 > 65, 499$  F (70)  $37, 621 > 37, 690$  F

### Practice:22.1

(1) F	(2) F	(3) F	(37) F	(38) F	(39) F
(4) F	(5) F	(6) F	(40) F	(41) F	(42) F
(7) F	(8) F	(9) F	(43) F	(44) F	(45) F
(10) T	(11) T	(12) T	(46) T	(47) T	(48) T
(13) T	(14) T	(15) T	(49) T	(50) T	(51) T
(16) T	(17) T	(18) T	(52) T	(53) T	(54) T
(19) F	(20) F	(21) F	(55) F	(56) F	(57) F
(22) F	(23) F	(24) F	(58) F	(59) F	(60) F
(25) F	(26) F	(27) F	(61) F	(62) F	(63) F
(28) T	(29) T	(30) T	(64) T	(65) T	(66) T
(31) T	(32) T	(33) T	(67) T	(68) T	(69) T
(34) T	(35) T	(36) T	(70) T	(71) T	(72) T

### Practice:22.2

(1) T	(2) T	(3) T	(22) T	(23) T	(24) T
(4) T	(5) T	(6) T	(25) T	(26) T	(27) T
(7) T	(8) T	(9) T	(28) T	(29) T	(30) T
(10) T	(11) T	(12) T	(31) T	(32) T	(33) T
(13) T	(14) T	(15) T	(34) T	(35) T	
(16) T	(17) T	(18) T			
(19) T	(20) T	(21) T			



(36) F	(37) F	(38) F	(151) F	(152) F	(153) F
(39) F	(40) F	(41) F	(154) F	(155) F	(156) F
(42) F	(43) F	(44) F	(157) F	(158) F	(159) F
(45) F	(46) F	(47) F	(160) F		
(48) F	(49) F	(50) F	(161) T	(162) T	(163) T
(51) T	(52) T	(53) T	(164) T	(165) T	(166) T
(54) T	(55) T	(56) T	(167) T	(168) T	(169) F
(57) T	(58) T	(59) T	(170) T		
(60) T	(61) T	(62) T	(171) F	(172) F	(173) F
(63) T	(64) T	(65) T			
(66) F	(67) F	(68) F	(174) F	(175) F	(176) F
(69) F	(70) F	(71) F	(177) F	(178) F	(179) F
(72) F	(73) F	(74) F			
(75) F	(76) F	(77) F	(180) F		
(78) F	(79) F	(80) F	(181) T	(182) T	(183) T
(81) F	(82) F	(83) F	(184) T	(185) T	(186) T
(84) F	(85) F	(86) F			
(87) F	(88) F	(89) F	(187) T	(188) T	(189) T
(90) F	(91) F	(92) F	(190) T		
(93) F	(94) F	(95) F	(191) F	(192) F	(193) F
(96) F	(97) F	(98) F	(194) F	(195) F	(196) F
(99) F	(100) F		(197) F	(198) F	(199) F
			(200) F		
(101) T	(102) T	(103) T			
(104) T	(105) T	(106) T	(201) T	(202) T	(203) T
(107) T	(108) T	(109) T			
(110) T			(204) T	(205) T	(206) T
(111) F	(112) F	(113) F	(207) T	(208) T	(209) T
(114) F	(115) F	(116) F	(210) T		
(117) F	(118) T	(119) F			
(120) T			(211) F	(212) F	(213) F
(121) T	(122) T	(123) T	(214) F	(215) F	(216) F
(124) T	(125) T	(126) T	(217) F	(218) F	(219) F
(127) T	(128) F	(129) T	(220) F		
(130) F					
(131) F	(132) F	(133) F			
(134) F	(135) F	(136) F			
(137) F	(138) F	(139) F			
(140) F					
(141) T	(142) T	(143) T			
(144) T	(145) T	(146) T			
(147) T	(148) T	(149) T			
(150) T					

**Lesson: 23**

1) I.O 1, 3, 2	7) A.O 2, 1, 3	13) A.O 3, 4, 1, 2
2) A.O 3, 1, 2	8) D.O 2, 3, 1	14) A.O 2, 3, 1, 4
3) I.O 3, 1, 2	9) D.O 3, 1, 2	15) I.O 3, 4, 2, 1
4) I.O 3, 2, 1	10) A.O 1, 2, 3, 4	16) D.O 1, 3, 4, 2
5) D.O 2, 1, 3	11) I.O 4, 2, 3, 1	17) D.O 2, 3, 1, 4
6) D.O 1, 3, 2	12) I.O 4, 1, 2, 3	18) D.O 4, 1, 3, 2
		19) D.O 4, 1, 2, 3

**Practice: 23**

1) I.O 3, 1, 2	37) I.O 2, 1, 3, 4	73) D.O 2, 4, 3, 1
2) A.O 3, 1, 2	38) A.O 1, 4, 3, 2	74) D.O 3, 1, 4, 2
3) I.O 2, 3, 1	39) I.O 1, 4, 2, 3	75) D.O 3, 1, 4, 2
4) A.O 2, 3, 1	40) A.O 2, 4, 3, 1	76) D.O 1, 4, 3, 2
5) I.O 3, 1, 2	41) I.O 3, 1, 4, 2	77) D.O 4, 3, 2, 1
6) A.O 2, 1, 3	42) A.O 3, 4, 1, 2	78) D.O 1, 3, 2, 4
7) A.O 3, 1, 2	43) I.O 3, 2, 4, 1	79) D.O 2, 3, 1, 4
8) I.O 3, 1, 2	44) A.O 3, 4, 1, 2	80) D.O 1, 3, 4, 2
9) A.O 2, 1, 3	45) I.O 4, 3, 1, 2	81) D.O 2, 3, 1, 4
10) I.O 3, 2, 1	46) A.O 4, 1, 3, 2	82) D.O 3, 2, 1, 4
11) A.O 3, 1, 2	47) I.O 2, 3, 4, 1	83) D.O 2, 4, 1, 3
12) I.O 2, 3, 1	48) A.O 3, 1, 2, 4	84) D.O 2, 4, 1, 3
13) I.O 3, 1, 2	49) I.O 3, 4, 2, 1	85) D.O 1, 2, 4, 3
14) A.O 3, 2, 1	50) D.O 1, 2, 3	86) D.O 1, 2, 4, 3
15) I.O 1, 3, 2	51) D.O 3, 1, 2	87) D.O 2, 1, 4, 3
16) A.O 2, 4, 1, 3	52) D.O 1, 3, 2	88) D.O 3, 4, 2, 1
17) I.O 2, 4, 1, 3	53) D.O 3, 1, 2	89) D.O 4, 1, 3, 2
18) A.O 3, 1, 2, 4	54) D.O 3, 2, 1	90) D.O 4, 1, 3, 2
19) I.O 3, 2, 1, 4	55) D.O 1, 3, 2	91) D.O 4, 1, 2, 3
20) A.O 4, 1, 3, 2	56) D.O 1, 3, 2	92) D.O 3, 4, 2, 1
21) I.O 2, 4, 3, 1	57) D.O 2, 3, 1	93) D.O 4, 1, 3, 2
22) A.O 2, 3, 1, 4	58) D.O 3, 1, 2	94) D.O 3, 2, 1, 4
23) I.O 1, 4, 3, 2	59) D.O 1, 3, 2	95) D.O 4, 1, 3, 2
24) A.O 1, 4, 2, 3	60) D.O 2, 3, 1	96) D.O 2, 1, 3, 4
25) I.O 2, 1, 3, 4	61) D.O 2, 1, 3	97) D.O 1, 3, 2, 4
26) A.O 3, 4, 1, 2	62) D.O 3, 1, 2	98) D.O 3, 2, 4, 1
27) I.O 4, 3, 1, 2	63) D.O 1, 3, 2	99) D.O 3, 2, 4, 1
28) A.O 4, 3, 1, 2	64) D.O 2, 1, 3	100) D.O 2, 1, 3, 4
29) I.O 3, 1, 4, 2	65) D.O 1, 2, 3	101) D.O 2, 4, 3, 1
30) A.O 2, 3, 1, 4	66) D.O 3, 1, 2	102) D.O 3, 2, 1, 4
31) I.O 2, 3, 1, 4	67) D.O 3, 1, 2	103) D.O 1, 4, 2, 3
32) A.O 4, 2, 3, 1	68) D.O 4, 1, 2, 3	104) D.O 1, 2, 4, 3
33) I.O 4, 3, 2, 1	69) D.O 3, 2, 4, 1	105) D.O 2, 1, 4, 3
34) A.O 1, 4, 2, 3	70) D.O 3, 1, 2, 4	106) D.O 2, 3, 1, 4
35) I.O 2, 3, 4, 1	71) D.O 1, 4, 2, 3	107) D.O 2, 1, 4, 3
36) A.O 1, 4, 2, 3	72) D.O 2, 3, 4, 1	108) D.O 2, 4, 1, 3
		109) D.O 3, 1, 2, 4

**Lesson:24**

- (1) 83632
- (2) 257551
- (3) 262336

**Practice:24**

- |              |              |              |
|--------------|--------------|--------------|
| (1) 65351    | (2) 20261    | (3) 38624    |
| (4) 25332    | (5) 46032    | (6) 109852   |
| (7) 921521   | (8) 868220   | (9) 357293   |
| (10) 557352  | (11) 14861   | (12) 15112   |
| (13) 12043   | (14) 11412   | (15) 11101   |
| (16) 22604   | (17) 76613   | (18) 52173   |
| (19) 67132   | (20) 81111   | (21) 41433   |
| (22) 703304  | (23) 217240  | (24) 1006567 |
| (25) 875343  | (26) 460562  | (27) 184203  |
| (28) 134451  | (29) 104651  | (30) 132213  |
| (31) 124220  | (32) 102113  | (33) 122013  |
| (34) 322354  | (35) 664120  | (36) 231442  |
| (37) 522130  | (38) 683952  | (39) 202421  |
| (40) 83632   | (41) 257551  | (42) 12336   |
| (43) 1082443 | (44) 1110431 | (45) 1131440 |
| (46) 1131140 | (47) 1101241 | (48) 1104112 |

**Lesson:25**

- (1) 786571

**Practice:25**

- |              |              |              |
|--------------|--------------|--------------|
| (1) 104658   | (2) 918658   | (3) 814337   |
| (4) 104333   | (5) 101881   | (6) 141605   |
| (7) 190521   | (8) 103141   | (9) 786783   |
| (10) 104566  | (11) 142737  | (12) 59048   |
| (13) 63194   | (14) 48470   | (15) 89797   |
| (16) 103434  | (17) 26880   | (18) 50165   |
| (19) 68100   | (20) 105873  | (21) 31585   |
| (22) 84260   | (23) 22689   | (24) 70538   |
| (25) 74180   | (26) 30633   | (27) 43268   |
| (28) 35350   | (29) 40640   | (30) 75462   |
| (31) 86108   | (32) 98782   | (33) 84539   |
| (34) 133916  | (35) 142782  | (36) 119686  |
| (37) 76996   | (38) 56900   | (39) 109872  |
| (40) 67217   | (41) 1016001 | (42) 608785  |
| (43) 354613  | (44) 786571  | (45) 827744  |
| (46) 1020494 | (47) 343051  | (48) 1067081 |
| (49) 1057496 | (50) 494417  |              |

**Lesson:26**

- |            |           |
|------------|-----------|
| (1) 2992   | (2) 39961 |
| (3) 60069  | (4) 39859 |
| (5) 399849 | (6) 49797 |
| (7) 699457 | (8) 39426 |

**Practice:26**

- |            |             |             |             |
|------------|-------------|-------------|-------------|
| (1) 1975   | (2) 909     | (3) 5943    | (4) 6937    |
| (5) 957    | (6) 70025   | (7) 79947   | (8) 19978   |
| (9) 39907  | (10) 89187  | (11) 69442  | (12) 19877  |
| (13) 49889 | (14) 9376   | (15) 29527  | (16) 299737 |
| (17) 99764 | (18) 499689 | (19) 99584  | (20) 199567 |
| (21) 69643 | (22) 38388  | (23) 7787   | (24) 11886  |
| (25) 35742 | (26) 695993 | (27) 495479 | (28) 196061 |
| (29) 91235 | (30) 699457 | (31) 299555 | (32) 399175 |
| (33) 91179 | (34) 592898 | (35) 198884 | (36) 39426  |
| (37) 8627  | (38) 97     | (39) 5264   | (40) 3159   |
| (41) 44691 |             |             |             |

**Lesson:27**

- |                             |              |              |               |
|-----------------------------|--------------|--------------|---------------|
| (1) 3 times 2               |              |              |               |
| (2) 3 of 2                  |              |              |               |
| (3) $3 \times 2$            |              |              |               |
| (4) $6 + 6 + 6$             |              |              |               |
| (5) $3 + 3 + 3 + 3 + 3 + 3$ |              |              |               |
| (6) dividend : 20           | divisor : 5  | quotient : 4 | remainder : 0 |
| (7) dividend : 7            | divisor : 2  | quotient : 3 | remainder : 1 |
| (8) dividend : 14           | divisor : 10 | quotient : 1 | remainder : 4 |
| (9) dividend : 16           | divisor : 16 | quotient : 1 | remainder : 0 |
| (10) dividend : 8           | divisor : 1  | quotient : 8 | remainder : 0 |
| (11) dividend : 20          | divisor : 5  | quotient : 4 | remainder : 0 |

**Practice:27.1**

- |                 |                   |
|-----------------|-------------------|
| (1) 4 times 7   | (16) 6 of 5       |
| (2) 2 times 9   | (17) 3 of 4       |
| (3) 2 times 3   | (18) 7 of 9       |
| (4) 7 times 4   | (19) 1 of 1       |
| (5) 5 times 0   | (20) 1 of 7       |
| (6) 3 times 5   | (21) 1 of 5       |
| (7) 9 times 8   | (22) 1 of 2       |
| (8) 10 times 1  | (23) 9 of 11      |
| (9) 11 times 6  | (24) 11 of 20     |
| (10) 3 times 10 | (25) 12 of 14     |
| (11) 4 times 13 | (26) 4 of 76      |
| (12) 2 times 17 | (27) 6 of 100     |
| (13) 5 times 25 | (28) 8 of 10      |
| (14) 3 times 12 | (29) $4 \times 7$ |
| (15) 6 times 15 | (30) $2 \times 9$ |

- |                    |  |
|--------------------|--|
| (31) $2 \times 3$  | (43) $9 \times 11$   |
| (32) $7 \times 4$  | (44) $11 \times 20$  |
| (33) $5 \times 0$  | (45) $12 \times 14$  |
| (34) $3 \times 5$  | (46) $10 \times 10$  |
| (35) $9 \times 8$  | (47) 2   |
| (36) $10 \times 1$ | (48) $1 + 1$   |
| (37) $11 \times 6$ | (49) $3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3$ |
| (38) $3 \times 10$ | (50) $15 + 15 + 15$  |
| (39) $4 \times 13$ | (51) $5 + 5 + 5 + 5$   |
| (40) $2 \times 17$ | (52) $3 + 3 + 3$   |
| (41) $5 \times 25$ | (53) $7 + 7 + 7 + 7 + 7 + 7 + 7$                                     |
| (42) $3 \times 12$ | (54) $2 + 2$   |

### Practice : 27.2

- |                     |              |               |                |
|---------------------|--------------|---------------|----------------|
| (1) dividend : 18   | divisor : 2  | quotient : 9  | remainder : 0  |
| (2) dividend : 16   | divisor : 8  | quotient : 2  | remainder : 0  |
| (3) dividend : 60   | divisor : 6  | quotient : 10 | remainder : 0  |
| (4) dividend : 21   | divisor : 7  | quotient : 3  | remainder : 0  |
| (5) dividend : 63   | divisor : 9  | quotient : 7  | remainder : 0  |
| (6) dividend : 25   | divisor : 5  | quotient : 5  | remainder : 0  |
| (7) dividend : 49   | divisor : 7  | quotient : 7  | remainder : 0  |
| (8) dividend : 40   | divisor : 10 | quotient : 4  | remainder : 0  |
| (9) dividend : 50   | divisor : 25 | quotient : 2  | remainder : 0  |
| (10) dividend : 75  | divisor : 25 | quotient : 3  | remainder : 0  |
| (11) dividend : 20  | divisor : 4  | quotient : 5  | remainder : 0  |
| (12) dividend : 13  | divisor : 5  | quotient : 2  | remainder : 3  |
| (13) dividend : 180 | divisor : 50 | quotient : 3  | remainder : 30 |
| (14) dividend : 67  | divisor : 12 | quotient : 5  | remainder : 7  |
| (15) dividend : 23  | divisor : 10 | quotient : 2  | remainder : 3  |
| (16) dividend : 19  | divisor : 9  | quotient : 2  | remainder : 1  |
| (17) dividend : 20  | divisor : 7  | quotient : 2  | remainder : 6  |
| (18) dividend : 30  | divisor : 14 | quotient : 2  | remainder : 2  |
| (19) dividend : 40  | divisor : 15 | quotient : 2  | remainder : 10 |
| 20) dividend : 17   | divisor : 8  | quotient : 2  | remainder : 1  |
| 21) dividend : 23   | divisor : 3  | quotient : 7  | remainder : 2  |
| 22) dividend : 80   | divisor : 25 | quotient : 3  | remainder : 5  |
| 23) dividend : 32   | divisor : 30 | quotient : 1  | remainder : 2  |
| 24) dividend : 17   | divisor : 11 | quotient : 1  | remainder : 6  |
| 25) dividend : 43   | divisor : 40 | quotient : 1  | remainder : 3  |
| 26) dividend : 16   | divisor : 9  | quotient : 1  | remainder : 7  |
| 27) dividend : 20   | divisor : 15 | quotient : 1  | remainder : 5  |
| 28) dividend : 7    | divisor : 5  | quotient : 1  | remainder : 2  |
| 29) dividend : 11   | divisor : 10 | quotient : 1  | remainder : 1  |
| 30) dividend : 100  | divisor : 90 | quotient : 1  | remainder : 10 |
| 31) dividend : 52   | divisor : 40 | quotient : 1  | remainder : 12 |

32)	dividend : 18	divisor : 15	quotient : 1	remainder : 3
33)	dividend : 20	divisor : 17	quotient : 1	remainder : 3
34)	dividend : 7	divisor : 7	quotient : 1	remainder : 0
35)	dividend : 20	divisor : 20	quotient : 1	remainder : 0
36)	dividend : 1	divisor : 1	quotient : 1	remainder : 0
37)	dividend : 8	divisor : 8	quotient : 1	remainder : 0
38)	dividend : 2	divisor : 2	quotient : 1	remainder : 0
39)	dividend : 11	divisor : 11	quotient : 1	remainder : 0
40)	dividend : 128	divisor : 128	quotient : 1	remainder : 0
41)	dividend : 43	divisor : 43	quotient : 1	remainder : 0
42)	dividend : 6	divisor : 6	quotient : 1	remainder : 0
43)	dividend : 3	divisor : 3	quotient : 1	remainder : 0
44)	dividend : 9	divisor : 9	quotient : 1	remainder : 0
45)	dividend : 6	divisor : 1	quotient : 6	remainder : 0
46)	dividend : 9	divisor : 1	quotient : 9	remainder : 0
47)	dividend : 7	divisor : 1	quotient : 7	remainder : 0
48)	dividend : 10	divisor : 1	quotient : 10	remainder : 0
49)	dividend : 12	divisor : 1	quotient : 12	remainder : 0
50)	dividend : 5	divisor : 1	quotient : 5	remainder : 0
51)	dividend : 2	divisor : 1	quotient : 2	remainder : 0
52)	dividend : 1	divisor : 1	quotient : 1	remainder : 0
53)	dividend : 4	divisor : 1	quotient : 4	remainder : 0
54)	dividend : 3	divisor : 1	quotient : 3	remainder : 0
55)	dividend : 6	divisor : 1	quotient : 6	remainder : 0
(56)	dividend : 17	divisor : 9		
(57)	dividend : 25	divisor : 6		
(58)	dividend : 30	divisor : 21		
(59)	dividend : 9	divisor : 2		
(60)	dividend : 10	divisor : 3		
(61)	dividend : 15	divisor : 2		
(62)	dividend : 33	divisor : 4		
(63)	dividend : 7	divisor : 2		
(64)	dividend : 9	divisor : 5		
(65)	dividend : 11	divisor : 7		
(66)	dividend : 16	divisor : 9		
(67)	dividend : 9	divisor : 2	quotient : 4	remainder : 1
(68)	dividend : 7	divisor : 3	quotient : 2	remainder : 1
(69)	dividend : 13	divisor : 8	quotient : 1	remainder : 5
(70)	dividend : 20	divisor : 11	quotient : 1	remainder : 9
(71)	dividend : 16	divisor : 16	quotient : 1	remainder : 0
(72)	dividend : 10	divisor : 10	quotient : 1	remainder : 0
(73)	dividend : 7	divisor : 7	quotient : 1	remainder : 0
(74)	dividend : 6	divisor : 1	quotient : 6	remainder : 0
(75)	dividend : 10	divisor : 1	quotient : 10	remainder : 0

76) dividend : 7                      divisor : 1                      quotient : 7                      remainder : 0  
 (77) dividend : 11                      divisor : 1                      quotient : 11                      remainder : 0

**Lesson:28**

(1) 356395                      (2) 329208  
 (3) 6549536                      (4) 34320144

**Practice:28**

(1) 21735	(2) 49050	(3) 87824	(4) 61992
(5) 26166	(6) 32422	(7) 19608	(8) 56712
(9) 44304	(10) 26078	(11) 475304	(12) 827522
(13) 651612	(14) 435298	(15) 643188	(16) 529552
(17) 241766	(18) 297636	(19) 163748	(20) 329208
(21) 540432	(22) 448578	(23) 409578	(24) 239085
(25) 426384	(26) 846304	(27) 591192	(28) 159666
(29) 6549536	(30) 2717960	(31) 3040070	(32) 4438147
(33) 2549595	(34) 4790564	(35) 8401812	(36) 6470165
(37) 5330056	(38) 2783328	(39) 34320144	(40) 37446243
(41) 36891756	(42) 27815268	(43) 36005310	(44) 17482378
(45) 29733704	(46) 60427506	(47) 19454268	(48) 66437154

**Lesson:29**

1) quotient : 142	remainder : 2
2) quotient : 6	remainder : 0
3) quotient : 18	remainder : 6
4) quotient : 54	remainder : 0
5) quotient : 456	remainder : 0
6) quotient : 4	remainder : 11
7) quotient : 24	remainder : 0
8) quotient : 12	remainder : 0

**Practice:29**

1) Q : 36	R : 0	2) Q : 127	R : 0	3) Q : 73	R : 0
4) Q : 194	R : 0	5) Q : 58	R : 0	6) Q : 142	R : 0
7) Q : 327	R : 0	8) Q : 96	R : 0	9) Q : 64	R : 0
10) Q : 233	R : 0	11) Q : 53	R : 0	12) Q : 34	R : 0
13) Q : 65	R : 0	14) Q : 49	R : 0	15) Q : 97	R : 0
16) Q : 27	R : 0	17) Q : 49	R : 0	18) Q : 63	R : 0
19) Q : 58	R : 0	20) Q : 39	R : 0	21) Q : 18	R : 0
22) Q : 23	R : 0	23) Q : 63	R : 0	24) Q : 96	R : 7
25) Q : 67	R : 2	26) Q : 65	R : 1	27) Q : 193	R : 3
28) Q : 35	R : 7	29) Q : 39	R : 5	30) Q : 84	R : 2
31) Q : 5	R : 0	32) Q : 42	R : 0	33) Q : 812	R : 0
34) Q : 3	R : 0	35) Q : 3	R : 0	36) Q : 2	R : 0
37) Q : 9	R : 0	38) Q : 3	R : 0	39) Q : 5	R : 0
40) Q : 2	R : 0	41) Q : 3	R : 0	42) Q : 2	R : 0

- |              |        |              |        |              |       |
|--------------|--------|--------------|--------|--------------|-------|
| 43) Q: 6     | R : 6  | 44) Q : 5    | R : 8  | 45) Q: 2     | R : 3 |
| 46) Q: 4     | R: 1   | 47) Q : 5    | R: 5   | 48) Q: 8     | R : 2 |
| 49) Q : 5    | R: 5   | 50) Q : 5    | R : 9  | 51) Q : 26   | R : 0 |
| 52) Q : 36   | R : 0  | 53) Q : 45   | R: 0   | 54) Q : 18   | R: 0  |
| 55) Q: 12    | R: 0   | 56) Q : 12   | R : 0  | 57) Q: 16    | R : 0 |
| 58) Q : 21   | R: 0   | 59) Q : 32   | R : 0  | 60) Q : 13   | R: 0  |
| 61) Q : 12   | R: 0   | 62) Q : 32   | R : 4  | 63) Q : 12   | R : 4 |
| 64) Q : 35   | R: 6   | 65) Q : 31   | R : 10 | 66) Q : 35   | R: 10 |
| 67) Q : 6    | R : 28 | 68) Q : 14   | R: 40  | 69) Q: 52    | R : 0 |
| 70) Q : 98   | R: 0   | 71) Q : 24   | R : 0  | 72) Q : 53   | R : 0 |
| 73) Q: 85    | R : 0  | 74) Q: 65    | R : 0  | 75) Q: 68    | R: 0  |
| 76) Q : 356  | R: 0   | 77) Q : 64   | R: 0   | 78) Q: 41    | R : 0 |
| 79) Q : 352  | R: 0   | 80) Q: 857   | R: 0   | 81) Q : 1678 | R: 0  |
| 82) Q: 6485  | R: 0   | 83) Q: 2846  | R : 0  | 84) Q : 3975 | R : 0 |
| 85) Q : 3498 | R : 0  | 86) Q: 3795  | R: 0   | 87) Q : 1674 | R : 0 |
| 88) Q : 1682 | R: 0   | 89) Q : 2    | R : 0  | 90) Q: 4     | R : 0 |
| 91) Q : 6    | R : 0  | 92) Q : 2    | R : 0  | 93) Q : 8    | R : 0 |
| 94) Q : 2    | R: 28  | 95) Q : 5    | R : 20 | 96) Q : 4    | R: 2  |
| 97) Q : 4    | R: 18  | 98) Q : 4    | R : 80 | 99) Q : 82   | R : 0 |
| 100) Q: 11   | R: 0   | 101) Q : 15  | R : 0  | 102) Q: 37   | R : 0 |
| 103) Q: 42   | R : 0  | 104) Q: 12   | R: 0   | 105) Q : 11  | R : 0 |
| 106) Q: 58   | R : 0  | 107) Q : 36  | R : 0  | 108) Q: 68   | R : 0 |
| 109) Q : 48  | R : 0  | 110) Q: 34   | R: 0   | 111) Q : 98  | R : 0 |
| 112) Q : 99  | R: 0   | 113) Q : 571 | R : 0  | 114) Q : 684 | R : 0 |

### Lesson:30

- |            |       |           |       |            |       |
|------------|-------|-----------|-------|------------|-------|
| 1) Q : 10  | R : 1 | 2) Q: 1   | R: 3  | 3) Q: 303  | R : 0 |
| 4) Q: 1002 | R : 0 | 5) Q : 20 | R : 0 | 6) Q : 405 | R : 0 |
| 7) Q : 902 | R : 0 | 8) Q: 207 | R: 0  | 9) Q: 2005 | R : 0 |

### Practice:30

- |             |        |             |        |              |       |
|-------------|--------|-------------|--------|--------------|-------|
| 1) Q : 20   | R : 0  | 2) Q : 20   | R : 0  | 3) Q : 20    | R : 0 |
| 4) Q : 50   | R : 0  | 5) Q : 60   | R : 0  | 6) Q : 700   | R: 0  |
| 7) Q: 700   | R : 0  | 8) Q : 900  | R: 0   | 9) Q: 990    | R: 0  |
| 10) Q : 10  | R : 6  | 11) Q : 1   | R : 2  | 12) Q : 2    | R: 3  |
| 13) Q: 30   | R : 7  | 14) Q : 100 | R : 4  | 15) Q : 10   | R: 2  |
| 16) Q : 20  | R : 5  | 17) Q : 20  | R : 6  | 18) Q : 20   | R : 9 |
| 19) Q: 20   | R: 1   | 20) Q : 40  | R : 3  | 21) Q: 140   | R : 4 |
| 22) Q: 30   | R: 2   | 23) Q: 30   | R: 5   | 24) Q : 20   | R: 12 |
| 25) Q: 30   | R : 10 | 26) Q : 10  | R : 10 | 27) Q : 10   | R: 4  |
| 28) Q : 101 | R : 0  | 29) Q : 404 | R : 0  | 30) Q : 202  | R : 0 |
| 31) Q : 202 | R : 0  | 32) Q : 101 | R : 0  | 33) Q : 1503 | R : 0 |



- |              |       |              |       |              |       |
|--------------|-------|--------------|-------|--------------|-------|
| 34) Q : 2001 | R : 0 | 35) Q : 4002 | R : 0 | 36) Q : 405  | R : 0 |
| 37) Q : 703  | R : 0 | 38) Q : 308  | R : 0 | 39) Q : 504  | R : 0 |
| 40) Q : 609  | R : 0 | 41) Q : 305  | R : 0 | 42) Q : 60   | R : 0 |
| 43) Q : 20   | R : 0 | 44) Q : 30   | R : 0 | 45) Q : 90   | R : 0 |
| 46) Q : 20   | R : 0 | 47) Q : 604  | R : 0 | 48) Q : 208  | R : 0 |
| 49) Q : 305  | R : 0 | 50) Q : 504  | R : 0 | 51) Q : 107  | R : 0 |
| 52) Q : 605  | R : 0 | 53) Q : 706  | R : 0 | 54) Q : 607  | R : 0 |
| 55) Q : 402  | R : 0 | 56) Q : 709  | R : 0 | 57) Q : 101  | R : 0 |
| 58) Q : 601  | R : 0 | 59) Q : 605  | R : 0 | 60) Q : 106  | R : 0 |
| 61) Q : 403  | R : 0 | 62) Q : 3004 | R : 0 | 63) Q : 4006 | R : 0 |
| 64) Q : 2001 | R : 0 | 65) Q : 1007 | R : 0 | 66) Q : 4007 | R : 0 |

**Lesson:31**

- (1) 160      (2) 330      (3) 1310      (4) 1250 (5) 190

**Practice:31**

- |           |           |           |           |
|-----------|-----------|-----------|-----------|
| (1) 100   | (2) 140   | (53) 3610 | (54) 3920 |
| (3) 120   | (4) 110   | (55) 2940 | (56) 7950 |
| (5) 140   | (6) 110   | (57) 4410 | (58) 1050 |
| (7) 120   | (8) 130   | (59) 1130 | (60) 1310 |
| (9) 130   | (10) 150  | (61) 1410 | (62) 1130 |
| (11) 150  | (12) 120  | (63) 1310 | (64) 1310 |
| (13) 110  | (14) 160  | (65) 1120 | (66) 1020 |
| (15) 170  | (16) 110  | (67) 1030 | (68) 1210 |
| (17) 130  | (18) 330  | (69) 1070 | (70) 1210 |
| (19) 760  | (20) 710  | (71) 1310 | (72) 1130 |
| (21) 820  | (22) 810  | (73) 1150 | (74) 1220 |
| (23) 910  | (24) 920  | (75) 280  | (76) 297  |
| (25) 210  | (26) 710  | (77) 322  | (78) 320  |
| (27) 910  | (28) 810  | (79) 330  | (80) 329  |
| (29) 220  | (30) 350  | (81) 260  | (82) 295  |
| (31) 640  | (32) 510  | (83) 327  | (84) 330  |
| (33) 440  | (34) 420  | (85) 330  | (86) 257  |
| (35) 410  | (36) 560  | (87) 292  | (88) 330  |
| (37) 260  | (38) 510  | (89) 320  | (90) 329  |
| (39) 620  | (40) 610  | (91) 300  |           |
| (41) 2530 | (42) 9620 |           |           |
| (43) 6910 | (44) 9140 |           |           |
| (45) 5930 | (46) 9250 |           |           |
| (47) 2710 | (48) 6130 |           |           |
| (49) 7030 | (50) 7320 |           |           |
| (51) 8920 | (52) 8130 |           |           |

## Lesson 32

- 1) 315
- 2) 134
- 3) 282
- 4) 376
- 5) 582
- 6) 539
- 7) 472
- 8) 783

**Practice 32**

(1) 460	(2) 410	(79) 192	(80) 32
(3) 360	(4) 260	(81) 52	(82) 72
(5) 210	(6) 160	(83) 92	(84) 114
(7) 125	(8) 70	(85) 130	(86) 154
(9) 65	(10) 110	(87) 174	(88) 198
(11) 170	(12) 215	(89) 36	(90) 50
(13) 270	(14) 320	(91) 76	(92) 90
(15) 375	(16) 415	(93) 112	(94) 138
(17) 470	(18) 80	(95) 154	(96) 172
(19) 135	(20) 180	(97) 196	(98) 30
(21) 225	(22) 275	(99) 54	(100) 74
(23) 330	(24) 380	(101) 96	(102) 118
(25) 425	(26) 475	(103) 132	(104) 156
(27) 75	(28) 130	(105) 176	(106) 192
(29) 175	(30) 220	(107) 42	(108) 255
(31) 285	(32) 335	(109) 105	(110) 132
(33) 385	(34) 430	(111) 165	(112) 195
(35) 480	(36) 95	(113) 222	(114) 48
(37) 140	(38) 190	(115) 108	(116) 138
(39) 235	(40) 290	(117) 201	(118) 78
(41) 345	(42) 395	(119) 171	(120) 261
(43) 435	(44) 485	(121) 84	(122) 144
(45) 90	(46) 145	(123) 177	(124) 204
(47) 185	(48) 240	(125) 237	(126) 297
(49) 295	(50) 340	(127) 75	(128) 231
(51) 390	(52) 445	(129) 291	(130) 54
(53) 495	(54) 190	(131) 114	(132) 264
(55) 170	(56) 150	(133) 60	(134) 96
(57) 112	(58) 90	(135) 180	(136) 220
(59) 76	(60) 56	(137) 256	(138) 300
(61) 38	(62) 30	(139) 340	(140) 140
(63) 50	(64) 70	(141) 72	(142) 152
(65) 94	(66) 116	(143) 104	(144) 148
(67) 138	(68) 158	(145) 68	(146) 384
(69) 176	(70) 194	(147) 228	(148) 264
(71) 34	(72) 58	(149) 308	(150) 348
(73) 78	(74) 98	(151) 112	(152) 236
(75) 110	(76) 136	(153) 196	(154) 272
(77) 152	(78) 178	(155) 316	(156) 356

(157) 392	(158) 188	(223) 344	(224) 424
(159) 396	(160) 462	(225) 504	(226) 584
(161) 522	(162) 282	(227) 704	(228) 784
(163) 108	(164) 138	(229) 232	(230) 312
(165) 222	(166) 282	(231) 352	(232) 552
(167) 342	(168) 288	(233) 592	(234) 712
(169) 588	(170) 114	(235) 792	(236) 592
(171) 162	(172) 228	(237) 152	(238) 198
(173) 348	(174) 402	(239) 333	(240) 423
(175) 468	(176) 528	(241) 513	(242) 603
(177) 72	(178) 354	(243) 693	(244) 873
(179) 174	(180) 234	(245) 162	(246) 252
(181) 294	(182) 414	(247) 342	(248) 432
(183) 474	(184) 534	(249) 522	(250) 612
(185) 594	(186) 119	(251) 702	(252) 792
(187) 399	(188) 469	(253) 882	(254) 171
(189) 574	(190) 189	(255) 261	(256) 351
(191) 259	(192) 644	(257) 441	(258) 531
(193) 126	(194) 406	(259) 621	(260) 711
(195) 651	(196) 196	(261) 801	(262) 891
(197) 266	(198) 336		
(199) 476	(200) 546		
(201) 616	(202) 133		
(203) 203	(204) 273		
(205) 343	(206) 693		
(207) 413	(208) 483		
(209) 553	(210) 623		
(211) 136	(212) 192		
(213) 272	(214) 336		
(215) 416	(216) 496		
(217) 576	(218) 696		
(219) 776	(220) 144		
(221) 224	(222) 280		