

# 1. Let us Revise

## Exercise 1.1

- Six thousand six hundred sixty eight.
  - Three thousand five hundred three.
  - Five thousand one hundred twenty eight.
  - Seven thousand six.
  - Nine thousand fifty nine
- 3325
  - 6252
  - 9407
  - 1011
  - 2780
- $8709 = 8000 + 700 + 0 + 9$
  - $6891 = 6000 + 800 + 90 + 1$
  - $7607 = 7000 + 600 + 0 + 7$
  - $3192 = 3000 + 100 + 90 + 2$
  - $4009 = 4000 + 9$
- $6000 + 80 + 7 = 6087$
  - $5000 + 700 + 60 + 8 = 5768$
  - $1000 + 900 + 20 + 5 = 1925$
  - $5000 + 50 + 7 = 5057$
  - $6000 + 200 + 10 + 4 = 6214$
- |     |      |      |      |      |      |
|-----|------|------|------|------|------|
| (a) | 3460 | 4927 | 3007 | 7690 | 5111 |
| (b) | 6680 | 7160 | 3119 | 7012 | 6801 |
| (c) | 2801 | 2506 | 618  | 1111 | 1507 |
| (d) | 1481 | 1506 | 2691 | 560  | 550  |
- |     |      |   |      |     |      |   |      |
|-----|------|---|------|-----|------|---|------|
| (a) | 1190 | > | 469  | (b) | 2260 | < | 4560 |
| (c) | 5699 | < | 5888 | (d) | 2001 | < | 5150 |
| (e) | 6182 | > | 6152 | (f) | 4560 | = | 4560 |
- Ascending order : 3628, 5321, 5432, 6789, 6828
  - Ascending order : 1345, 2342, 3789, 5515, 6394
  - Ascending order : 1178, 2378, 3378, 4378, 7378
  - Ascending order : 3876, 6953, 7789, 9376, 9878
- Descending order : 9722, 5005, 4660, 2331, 404
  - Descending order : 7801, 5681, 4122, 3250, 3130
  - Descending order : 4690, 2159, 1261, 1001, 32
  - Descending order : 6160, 6060, 6011, 692, 615

9. (b) **Number** **Place values** **Face values**
- |   |   |   |   |   |      |   |
|---|---|---|---|---|------|---|
| 2 | 6 | 7 | 8 |   |      |   |
|   |   |   |   | → |      |   |
|   |   |   |   |   | 8    | 8 |
|   |   |   |   |   | 70   | 7 |
|   |   |   |   |   | 600  | 6 |
|   |   |   |   |   | 2000 | 2 |

(c) **Number** **Place values** **Face values**

|   |   |   |   |   |      |
|---|---|---|---|---|------|
| 7 | 9 | 0 | 7 |   |      |
|   |   |   |   | → |      |
|   |   |   |   | → | 7    |
|   |   |   |   | → | 0    |
|   |   |   |   | → | 900  |
|   |   |   |   | → | 7000 |

(d) **Number** **Place values** **Face values**

|   |   |   |   |   |      |
|---|---|---|---|---|------|
| 8 | 9 | 9 | 0 |   |      |
|   |   |   |   | → |      |
|   |   |   |   | → | 0    |
|   |   |   |   | → | 90   |
|   |   |   |   | → | 900  |
|   |   |   |   | → | 8000 |

10. (a) VII = 7                      (b) XIII = 13                      (c) XXVII = 27  
 (d) XVIII = 18                      (e) XLII = 42                      (f) XIX = 19

11. (a) 

| Th        | H | T | O |
|-----------|---|---|---|
| 4         | 7 | 1 | 7 |
| + 1 8 9 8 |   |   |   |
| 6         | 6 | 1 | 5 |

(b) 

| m           | cm  |
|-------------|-----|
| 1 0 6       | 6 4 |
| + 2 2 7 3 8 |     |
| 3 3 4       | 0 2 |

(c) 

| kg          | g     |
|-------------|-------|
| 1 2 7       | 7 5 9 |
| + 6 8 3 9 1 |       |
| 1 9 6       | 0 5 0 |

12. (a) 

| Th        | H            | T            | O |
|-----------|--------------|--------------|---|
|           | 6            | 10           |   |
| 6         | <del>7</del> | <del>0</del> | 3 |
| - 2 2 4 3 |              |              |   |
| 4         | 4            | 6            | 0 |

(b) 

| kg          | g     |
|-------------|-------|
| 8 0         | 2 1 5 |
| - 6 1 6 0 8 |       |
| 1 8         | 4 0 7 |

(c) 

| l                 | ml                 |
|-------------------|--------------------|
| 17 13             | 15                 |
| <del>7 7 15</del> | <del>5 10 18</del> |
| <del>8 8 4</del>  | <del>6 1 8</del>   |
| - 4 9 9 7 6 9     |                    |
| 3 8 4             | 8 4 9              |

13. (a) 

| Th  | H | T | O |
|-----|---|---|---|
| 3   | 1 | 7 | 5 |
| × 3 |   |   |   |
| 9   | 5 | 2 | 5 |

(b) 

| Th    | H | T | O |
|-------|---|---|---|
| 1     | 8 | 0 |   |
| × 2 9 |   |   |   |
| 1     | 6 | 2 | 0 |
| 3     | 6 | 0 | × |
| 5     | 2 | 2 | 0 |

(c) 

| Th    | H | T | O |
|-------|---|---|---|
| 2     | 5 | 9 |   |
| × 1 5 |   |   |   |
| 1     | 2 | 9 | 5 |
| 2     | 5 | 9 | × |
| 3     | 8 | 8 | 5 |

(d) 

| Th    | H | T | O |
|-------|---|---|---|
|       | 1 | 1 | 2 |
| × 6 2 |   |   |   |
| 2     | 2 | 4 | 4 |
| 6     | 7 | 2 | × |
| 6     | 9 | 4 | 4 |

14. (a) 

|         |
|---------|
| 156     |
| 3 ) 468 |
| - 3     |
| 16      |
| - 15    |
| 18      |
| - 18    |
| 0       |

(b) 

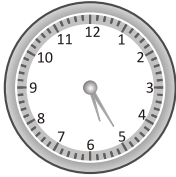
|         |
|---------|
| 69      |
| 5 ) 345 |
| - 30    |
| 45      |
| - 45    |
| 0       |
| ×       |

(c) 

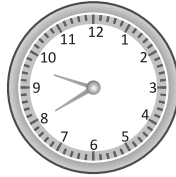
|          |
|----------|
| 263      |
| 6 ) 1578 |
| - 12     |
| 37       |
| - 36     |
| 18       |
| - 18     |
| 0        |

15. (a)  $\left(\frac{1}{7}\right), \frac{1}{9}$                       (b)  $\left(\frac{23}{30}\right), \frac{17}{30}$                       (c)  $\frac{2}{5}, \left(\frac{3}{5}\right)$   
 (d)  $\frac{19}{100}, \left(\frac{78}{100}\right)$                       (e)  $\left(\frac{10}{7}\right), \frac{10}{9}$                       (f)  $\frac{11}{6}, \left(\frac{11}{5}\right)$

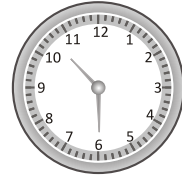
16. (b)



(c)



(d)



17. a. 12 months make a year.  
 b. **April, June, September, November** months have 30 days.  
 c. There are **366** days in a leap year.  
 d. A leap year has **1** day more than an ordinary year.  
 e. **July** and **August** is a pair of consecutive months having 31 days.  
 f. Our country became independent in the month of **August** in 1947.

18. a. Monthly Salary = ₹ 9687

The money spent on rent = ₹ 1060

The money spent on electricity bill = ₹ 528

The money spent on education = ₹ 2680

|                   |   |   |   |        |
|-------------------|---|---|---|--------|
| The money donated | = | - | ₹ | 657    |
|                   |   |   |   | ₹ 4925 |

|            |   |   |        |
|------------|---|---|--------|
| My savings | = | ₹ | 9687   |
|            | = | - | ₹ 4925 |
|            |   |   | ₹ 4762 |

So, I have saved ₹ 4762 for my own expenditure.

- (b) No. of marbles in 3 packets = 246  
 No. of marbles in 1 packet =  $246 \div 3 = 81$  marbles  
 So, I have 81 marbles in each packet.
- (c) Height of the plant = 56 cm.  
 Increment in its height = 1 m. 11 cm.  
 New height of the plant = 56 cm + 1 m 11 cm = 1 m 67 cm.

| m   | cm |
|-----|----|
| 0   | 56 |
| + 1 | 11 |
| 1   | 67 |

So, the plant is 1 m. 67 cm. taller now.

- (d) My mother leaves for office at = 8 : 00 a.m. = 0800 hours  
 She reaches home at = 6 : 00 p.m. = 1800 hours  
 Duration for 8 : 00 a.m. to noon.

| hrs. | min. |
|------|------|
| 12   | 00   |
| - 08 | 00   |
| 4    | 00   |

Ist duration = 4 hours

Duration from noon to 6 : 00 p.m.

| hrs. | min. |
|------|------|
| 18   | 00   |
| - 12 | 00   |
| 6    | 00   |

Ind duration = 6 hours

So, Total duration = 4 hours + 6 hours = 10 hours

So, she is 10 hours away from home.

(e) Weight of Kapil = 46.5 kg

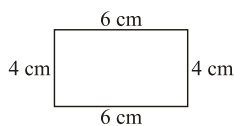
Weight of Ajit = 76.8 kg

Difference in their weights =

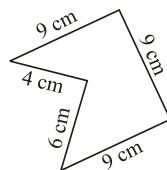
$$\begin{array}{r} 76.8 \text{ kg} \\ - 46.5 \text{ kg} \\ \hline 30.3 \text{ kg} \end{array}$$

So, Ajit is heavier by 30.3 kg.

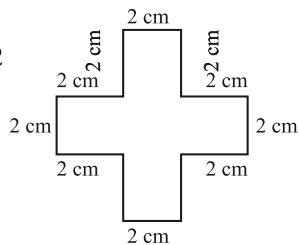
19. (a) Perimeter = 6 + 4 + 6 + 4 = 20 cm.



(b) Perimeter = 9 + 9 + 9 + 6 + 4 = 37 cm.



(c) Perimeter = 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 24 cm.



## 2. Large Numbers

### Exercise 2.1

- (a) 22,324, Twenty two thousand three hundred twenty four.  
 (b) 34,041, Thirty four thousand forty one.  
 (c) 90,306, Ninety thousand three hundred six.
- (a) 49,285                      (b) 6,47,658                      (c) 7,39,176  
 (d) 3,28,657                    (e) 6,39,175                      (f) 9,54,937
- (a) 85,177                      (b) 222,946                      (c) 1,723,591  
 (d) 33,274,584                    (e) 731,562                      (f) 456,371
- (a) Forty six thousand one hundred twenty five.  
 (b) Four lakh sixty seven thousand eight hundred sixteen.  
 (c) Nineteen lakh twenty seven thousand forty seven.  
 (d) Twenty five lakh sixteen thousand three hundred fourteen.
- (a) Six hundred twelve thousand three hundred fifty two.  
 (b) One hundred seven thousand seven hundred ninety eight.  
 (c) Eight million nine hundred ninety three thousand four hundred fifty two.  
 (d) Thirty one million one hundred twenty three thousand four hundred fifty six.
- (a) 2,97,411                      (b) 6,28,941  
 (c) 436,461                      (d) 1,802,055

## Exercise 2.2

1. (a) Place value of 7 = 700                      Face value of 7 = 7  
 (b) Place value of 4 = 4,000                      Face value of 4 = 4  
 (c) Place value of 8 = 8,000                      Face value of 8 = 8  
 (d) Place value of 5 = 50,000                      Face value of 5 = 5  
 (e) Place value of 6 = 6,00,000                      Face value of 6 = 6  
 (f) Place value of 4 = 4,000                      Face value of 4 = 4  
 (g) Place value of 3 = 3,000                      Face value of 3 = 3  
 (h) Place value of 9 = 9,00,000                      Face value of 9 = 9
2. Place value of 6 =     6 0 0 0  
 Face value of 6 =     -         6  
 Difference         =     5 9 9 4
3. Place value of 5 in tens place = 50  
 Place value of 5 in thousands place = 5000  
 Sum     =         5000  
           +         5  
           =         5005
4. (a) 20,000 + 9,000 + 300 + 8  
 (b) 80,000 + 1,000 + 100 + 70 + 3  
 (c) 2,00,000 + 30,000 + 7,000 + 900 + 10 + 7  
 (d) 8,00,000 + 90,000 + 6,000 + 700 + 80 + 5  
 (e) 40,000 + 6,000 + 900 + 20 + 8  
 (f) 90,000 + 400 + 90 + 4
5. (a) 4,00,000 + 30,000 + 2,000 + 100 + 70 + 6 = 4, 32, 176  
 (b) 1,00,000 + 70,000 + 5,000 + 400 + 80 + 7 = 1, 75, 487  
 (c) 2,00,000 + 60,000 + 9,000 + 600 + 90 + 9 = 2, 69, 699  
 (d) 70,000 + 6,000 + 60 = 76, 060  
 (e) 8,00,000 + 6,000 + 70 + 7 = 8, 06, 077

## Exercise 2.3

1. (a) Successor of 15,987 = 15,987 + 1 = 15,988  
 (b) Successor of 46,999 = 46,999 + 1 = 47,000  
 (c) Successor of 35,109 = 35,109 + 1 = 35,110  
 (d) Successor of 55,349 = 55,349 + 1 = 55,350  
 (e) Successor of 4,23,478 = 4,23,478 + 1 = 4,23,479  
 (f) Successor of 6,35,199 = 6,35,199 + 1 = 6,35,200  
 (g) Successor of 7,54,099 = 7,54,099 + 1 = 7,54,100  
 (h) Successor of 9,99,999 = 9,99,999 + 1 = 10,00,000
2. (a) Predecessor of 39,600 = 39,600 - 1 = 39,599  
 (b) Predecessor of 57,999 = 57,999 - 1 = 57,998  
 (c) Predecessor of 83,450 = 83,450 - 1 = 83,449  
 (d) Predecessor of 4,73,970 = 4,73,970 - 1 = 4,73,969  
 (e) Predecessor of 7,35,300 = 7,35,300 - 1 = 7,35,299

- (f) Predecessor of  $9,00,000 = 9,00,000 - 1 = 8,99,999$   
 (g) Predecessor of  $6,45,100 = 6,45,100 - 1 = 6,45,099$   
 (h) Predecessor of  $1,00,000 = 1,00,000 - 1 = 99,999$
3. (a)  $10,535 < 10,553$  (b)  $72,326 < 72,623$   
 (c)  $9,999 = 9,999$  (d)  $4,22,145 < 4,23,145$   
 (e)  $6,28,179 > 5,28,179$  (f)  $4,48,761 < 4,48,762$
4. (a) Ascending order :  $40,028 < 40,082 < 40,280 < 40,820$   
 (b) Ascending order :  $63,728 < 64,185 < 67,128 < 69,571$   
 (c) Ascending order :  $3,25,230 < 4,25,230 < 6,28,470 < 7,28,217$
5. (a) Descending order :  $77,234 > 76,173 > 71,345 > 70,148$   
 (b) Descending order :  $91950 > 81,059 > 80,590 > 80,509$   
 (c) Descending order :  $6,43,126 > 6,23,333 > 6,17,338 > 6,17,238$

### Exercise 2.4

1. (a) The smallest number = 12389      The greatest number = 98321  
 (b) The smallest number = 10459      The greatest number = 95410  
 (c) The smallest number = 10237      The greatest number = 73210
2. (a) The smallest number = 12488      The greatest number = 88421  
 (b) The smallest number = 30889      The greatest number = 98830  
 (c) The smallest number = 24588      The greatest number = 88542
3. The smallest 6-digit number = 103567  
 4. The greatest 6-digit number = 987533  
 5. The smallest 5-digit number = 10135

### Exercise 2.5

1. (a) 83  
 The ones digit  $3 < 5$   
 So, 83 is rounded off to 80.  
 (c) 215  
 The ones digit is 5  
 So, 215 is rounded off to 220.  
 (e) 618  
 The ones digit is  $8 > 5$ .  
 So, 618 is rounded off to 620.  
 (g) 935  
 The ones digit is 5.  
 So, 935 is rounded off to 940.  
 (i) 1733  
 The ones digit is  $3 < 5$ .  
 So, 1733 is rounded off to 1730.
2. (a) 615  
 The tens digit  $1 < 5$ .  
 So, 615 is rounded off to 600.  
 (c) 389  
 The tens digit  $8 > 5$ .  
 So, 389 is rounded off to 400.
- (b) 78  
 The ones digit  $8 > 5$   
 So, 78 is rounded off to 80.  
 (d) 112  
 The ones digit is  $2 < 5$ .  
 So, 112 is rounded off to 110.  
 (f) 476  
 The ones digit is  $6 > 5$ .  
 So, 476 is rounded off to 480.  
 (h) 382  
 The ones digit is  $2 < 5$ .  
 So, 382 is rounded off to 380.  
 (j) 45875  
 The ones digit is 5.  
 So, 45875 is rounded off to 45880.
- (b) 8810  
 The tens digit  $1 < 5$ .  
 So, 8810 is rounded off to 8800.  
 (d) 1485  
 The tens digit  $8 > 5$ .  
 So, 1485 is rounded off to 1500.

- (e) 2138  
The tens digit  $3 < 5$ .  
So, 2138 is rounded off to 2100.
- (g) 8895  
The tens digit is  $9 > 5$ .  
So, 8895 is rounded off to 8900.
- (i) 38197  
The tens digit  $9 > 5$ .  
So, 38197 is rounded off to 38200.
3. (a) 6347  
The hundreds digit  $3 < 5$ .  
So, 6347 is rounded off to 6000.
- (c) 3162  
The hundreds digit  $1 < 5$ .  
So, 3162 is rounded off to 3000.
- (e) 9555  
The hundreds digit is 5.  
So, 9555 is rounded off to 10,000.
- (g) 54819  
Five hundreds digit  $8 < 5$ .  
So, 54819 is rounded off to 55000.
- (i) 97698  
The hundreds digit  $6 < 5$ .  
So, 97698 is rounded off to 98000.
- (f) 6358  
The tens digit is 5.  
So, 6358 is rounded off to 6400.
- (h) 16827  
The tens digit is  $2 < 5$ .  
So, 16827 is rounded off to 16800.
- (j) 24364  
The tens digit  $6 > 5$ .  
So, 24364 is rounded off to 24400.
- (b) 7894  
The hundreds digit  $8 > 5$ .  
So, 7894 is rounded off to 8000.
- (d) 4005  
The hundreds digit  $0 < 5$ .  
So, 4005 is rounded off to 4000.
- (f) 12518  
The hundreds digit is 5.  
So, 12518 is rounded off to 13000.
- (h) 63215  
The hundreds digit  $2 < 5$ .  
So, 63215 is rounded off to 63000.
- (j) 43289  
The hundreds digit  $2 < 5$ .  
So, 43289 is rounded off to 43000.

### MCQ's

1. (b) 2. (a) 3. (c) 4. (b) 5. (c).

## 3. Roman Numerals

### Exercise 3.1

1. (a)  $29 = 20 + 9$   
 $= 20 + (10 - 1) = XX + (X - I)$   
 $= XX + IX = XXIX$
- (c)  $47 = 40 + 7 = (50 - 10) + (5 + 2)$   
 $= (L - X) + (V + II)$   
 $= XL + VII = XLVII$
- (e)  $74 = 70 + 4 = (50 + 20) + (5 - 1)$   
 $= (L + XX) + (V - I)$   
 $= LXX + IV = LXXIV$
- (g)  $93 = 90 + 3 = (100 - 10) + 3$   
 $= (C - X) + III = XC + III$   
 $= XC III$
- (i)  $39 = 30 + 9 = 30 + (10 - 1)$   
 $= XXX + (X - I)$   
 $= XXX + IX = XXXIX$
2. (a)  $XIX = X + IX = X + (X - I)$   
 $= 10 + (10 - 1)$   
 $= 10 + 9 = 19$
- (b)  $15 = 10 + 5$   
 $= X + V = XV$
- (d)  $86 = 80 + 6 = (50 + 30) + (5 + 1)$   
 $= (L + XXX) + (V + I)$   
 $= LXXX + VI = LXXXVI$
- (f)  $92 = 90 + 2 = (100 - 10)$   
 $= (C - X) + II = XC + II$   
 $= XCII$
- (h)  $67 = 60 + 7 = (50 + 10) + (5 + 2)$   
 $= (L + X) + (V + II)$   
 $= LX + VII = LXVII$
- (b)  $XXII = XX + II$   
 $= 20 + 2 = 22$

(c)  $XXXIV = XXX + IV$   
 $= XXX + (V - I)$   
 $= 30 + (5 - 1)$   
 $= 30 + 4 = 34$

(e)  $LXXIX = L + XX + IX$   
 $= L + XX + (X - I)$   
 $= 50 + 20 + (10 - 1)$   
 $= 50 + 20 + 9 = 79$

(g)  $LXXX = L + XXX$   
 $= 50 + 30$   
 $= 80$

(d)  $XLII = XL + II$   
 $= (L - X) + II$   
 $= (50 - 10) + 2$   
 $= 40 + 2 = 42$

(f)  $LXXVI = L + XX + VII$   
 $= 50 + 20 + 5 + 1$   
 $= 76$

(h)  $XCVII = XC + VII$   
 $= (C - X) + (V + II)$   
 $= (100 - 10) + (5 + 2)$   
 $= 90 + 7 = 97$

(i)  $XCV = XC + V = (C - X) + V = (100 - 10) + 5 = 90 + 5 = 95$

3. (a)  $97 \quad \equiv \quad XCVII$     (b)  $36 \quad > \quad XXXIV$     (c)  $LXIII \quad < \quad 73$

(d)  $LXXX \quad < \quad 82$     (e)  $XCVIII \quad < \quad XCIX$     (f)  $XC \quad < \quad C$

4. (a)  $XXII + V = 22 + 5 = 27$   
 $= 20 + 7 = XX + VII$   
 $= XXVII$

(c)  $LX + XL = 60 + 40$   
 $= 100 = C$

(d)  $IV + XXII = 4 + 22 = 26$   
 $= 20 + 6 = XX + VI$   
 $= XXVI$

(e)  $C + X = CX$

(f)  $LV + VI = 55 + 6 = 61$   
 $= 60 + 1 = LX + I = LXI$

5. (a)  $XV \quad \textcircled{IIIX} \quad XL \quad \textcircled{XXC} \quad LIII$   
(b)  $XIX \quad \textcircled{IVX} \quad XL \quad \textcircled{XXXC} \quad LIV$   
(c)  $XL \quad \textcircled{XXL} \quad LII \quad \textcircled{CVIV} \quad XXXIV$

### MCQ's

1. (c) 2. (b) 3. (c) 4. (b).

### Worksheet

| Class |                   | Number                | Corresponding Letter |
|-------|-------------------|-----------------------|----------------------|
| 1.    | Subtract I from L | $XI - III = VIII$     | V                    |
| 2.    | Divide O by I     | $IX \div III = VI$    | I                    |
| 3.    | Multiply I by I   | $III \times III = IX$ | O                    |
| 4.    | Add V and I       | $VIII + III = XI$     | L                    |
| 5.    | Multiply N by T   | $V \times II = X$     | E                    |
| 6.    | Divide E by N     | $X \div V = II$       | T                    |
| 7.    | Subtract T from O | $IX - II = VII$       | S                    |
| 8.    | Add S and T       | $VII + II = IX$       | O                    |
| 9.    | Subtract I from V | $VIII - III = V$      | N                    |
| 10.   | Subtract O from L | $XI - IX = II$        | T                    |
| 11.   | Add I to N        | $III + V = VIII$      | V                    |

Punch line

**VIOLETS ON TV**



## 4. Addition

### Exercise 4.1

1. (a)

$$\begin{array}{r} 1 \\ 83 \\ + 27 \\ \hline 110 \end{array}$$

(b)

$$\begin{array}{r} 1 \\ 136 \\ + 529 \\ \hline 665 \end{array}$$

(c)

$$\begin{array}{r} 111 \\ 6857 \\ + 2163 \\ \hline 9020 \end{array}$$

(d)

$$\begin{array}{r} 11 \\ 5968 \\ + 1912 \\ \hline 7880 \end{array}$$

(e)

$$\begin{array}{r} 11 \\ 7867 \\ + 288 \\ \hline 8155 \end{array}$$

(f)

$$\begin{array}{r} 121 \\ 1695 \\ + 2589 \\ + 1233 \\ \hline 5517 \end{array}$$

2. a.  $56 + 41 = 97$

b.  $69 + 21 = 90$

c.  $37 + 21 = 58$

d.  $42 + 37 = 79$

e.  $81 + 12 + 11 = 104$

f.  $67 + 55 + 14 = 136$

### Exercise 4.2

1. (a)

$$\begin{array}{r} \text{TThTh H T O} \\ 67133 \\ + 21745 \\ \hline 88878 \end{array}$$

(b)

$$\begin{array}{r} \text{TThTh H T O} \\ 47319 \\ + 11360 \\ \hline 58679 \end{array}$$

(c)

$$\begin{array}{r} \text{LTThTh H T O} \\ 423245 \\ + 341512 \\ \hline 764757 \end{array}$$

(d)

$$\begin{array}{r} \text{LTThTh H T O} \\ 420276 \\ + 154023 \\ + 313300 \\ \hline 887599 \end{array}$$

(e)

$$\begin{array}{r} \text{LTThTh H T O} \\ 632528 \\ + 150461 \\ \hline 782989 \end{array}$$

(f)

$$\begin{array}{r} \text{LTThTh H T O} \\ 722332 \\ + 140002 \\ + 22201 \\ \hline 884535 \end{array}$$

### Exercise 4.3

1. (a)

$$\begin{array}{r} \text{TThTh H T O} \\ 11111 \\ 67657 \\ + 24569 \\ \hline 92226 \end{array}$$

(b)

$$\begin{array}{r} \text{LTThTh H T O} \\ 11111 \\ 365797 \\ + 147698 \\ \hline 513495 \end{array}$$

(c)

$$\begin{array}{r} \text{LTThTh H T O} \\ 11111 \\ 624757 \\ + 188498 \\ \hline 813255 \end{array}$$

(d)

$$\begin{array}{r} \text{LTThTh H T O} \\ 11111 \\ 563434 \\ + 48466 \\ + 15579 \\ \hline 627479 \end{array}$$

(e)

$$\begin{array}{r} \text{LTThTh H T O} \\ 11111 \\ 246543 \\ + 210987 \\ + 123456 \\ \hline 580986 \end{array}$$

(f)

$$\begin{array}{r} \text{LTThTh H T O} \\ 11111 \\ 697782 \\ + 150106 \\ + 13301 \\ \hline 861189 \end{array}$$

2. (a) 

| L     | T | Th | Th | H | T | O |
|-------|---|----|----|---|---|---|
| 6     | 2 | 6  | 2  | 1 | 4 |   |
| +     |   |    |    |   |   |   |
|       | 3 | 6  | 9  | 2 | 4 |   |
| <hr/> |   |    |    |   |   |   |
| 6     | 6 | 3  | 1  | 3 | 8 |   |

 (b) 

| L     | T | Th | Th | H | T | O |
|-------|---|----|----|---|---|---|
|       |   |    |    | 1 | 1 |   |
|       | 5 | 2  | 3  | 6 | 4 |   |
| +     |   |    |    |   |   |   |
|       |   | 5  | 4  | 1 | 2 |   |
| <hr/> |   |    |    |   |   |   |
|       |   |    |    | 6 | 4 |   |
| <hr/> |   |    |    |   |   |   |
| 5     | 7 | 8  | 4  | 0 |   |   |

 (c) 

| L     | T | Th | Th | H | T | O |
|-------|---|----|----|---|---|---|
|       |   | 1  | 1  |   |   |   |
| 3     | 3 | 6  | 2  | 3 | 2 |   |
| +     |   |    |    |   |   |   |
|       |   | 5  | 2  | 1 | 4 |   |
| <hr/> |   |    |    |   |   |   |
|       | 5 | 6  | 9  | 2 | 3 |   |
| <hr/> |   |    |    |   |   |   |
| 3     | 9 | 8  | 3  | 6 | 9 |   |

(d) 

| L     | T | Th | Th | H | T | O |
|-------|---|----|----|---|---|---|
|       |   |    |    | 1 |   |   |
| 3     | 4 | 3  | 2  | 3 | 5 |   |
| +     |   |    |    |   |   |   |
|       | 5 | 1  | 3  | 4 | 1 |   |
| <hr/> |   |    |    |   |   |   |
|       |   |    | 2  | 1 | 4 |   |
| <hr/> |   |    |    |   |   |   |
| 3     | 9 | 4  | 7  | 9 | 0 |   |

 (e) 

| L     | T | Th | Th | H | T | O |
|-------|---|----|----|---|---|---|
|       |   | 1  | 1  | 1 |   |   |
|       | 6 | 3  | 5  | 4 | 7 |   |
| + 2   |   |    |    |   |   |   |
|       | 3 | 4  | 5  | 6 | 0 |   |
| <hr/> |   |    |    |   |   |   |
|       |   | 1  | 3  | 4 | 5 |   |
| <hr/> |   |    |    |   |   |   |
| 2     | 9 | 9  | 4  | 5 | 2 |   |

 (f) 

| L     | T | Th | Th | H | T | O |
|-------|---|----|----|---|---|---|
| 1     | 1 | 1  | 1  | 1 |   |   |
| 3     | 5 | 6  | 7  | 8 | 9 |   |
| + 1   |   |    |    |   |   |   |
|       | 9 | 4  | 5  | 6 | 7 |   |
| <hr/> |   |    |    |   |   |   |
| 5     | 5 | 1  | 3  | 5 | 6 |   |

### Exercise 4.4

1. (a)  $4634 + 0 = 4634$   
 (b)  $21346 + 1 = 21347$   
 (c)  $53476 + 0 = 53476$   
 (d)  $34567 + 1 = 34568$   
 (e)  $82547 + (35458 + 10000) = (82547 + 35458) + 10000$   
 (f)  $35,678 + 6,931 = 6,931 + 35678$

### Exercise 4.5

1. (a) 

| Th    | H | T | O |
|-------|---|---|---|
| 2     | 0 | 2 | 0 |
| + 1   |   |   |   |
|       | 4 | 4 | 6 |
| <hr/> |   |   |   |
| 3     | 4 | 6 | 6 |

 (b) 

| Th    | H | T | O |
|-------|---|---|---|
| 3     | 7 | 1 | 7 |
| + 5   |   |   |   |
|       | 2 | 9 | 9 |
| <hr/> |   |   |   |
| 9     | 0 | 0 | 6 |

 (c) 

| Th    | H | T | O |
|-------|---|---|---|
| 1     | 7 | 2 | 1 |
| + 7   |   |   |   |
|       | 4 | 5 | 5 |
| <hr/> |   |   |   |
| 9     | 1 | 7 | 6 |

(d) 

| T     | Th | Th | H | T | O |
|-------|----|----|---|---|---|
| 6     | 9  | 2  | 7 | 1 |   |
| + 0   |    |    |   |   |   |
|       | 6  | 1  | 2 | 3 |   |
| <hr/> |    |    |   |   |   |
| 7     | 5  | 3  | 9 | 4 |   |

 (e) 

| T     | Th | Th | H | T | O |
|-------|----|----|---|---|---|
| 5     | 4  | 2  | 6 | 2 |   |
| + 3   |    |    |   |   |   |
|       | 4  | 9  | 5 | 5 |   |
| <hr/> |    |    |   |   |   |
| 8     | 9  | 2  | 1 | 7 |   |

 (f) 

| T     | Th | Th | H | T | O |
|-------|----|----|---|---|---|
| 6     | 1  | 0  | 5 | 4 |   |
| + 2   |    |    |   |   |   |
|       | 3  | 9  | 8 | 8 |   |
| <hr/> |    |    |   |   |   |
| 8     | 5  | 0  | 4 | 2 |   |

### Exercise 4.6

1. Number of blue bulbs = 3,66,115  
 Number of red bulbs = + 4,33,999  
 Number of bulb produced = 8,00,114

So, 8,00,114 bulbs were produced in the factory.

2. Number of books of English = 24,600  
 Number of books of Hindi = + 62,575  
 Total books = 87,175

So, there are 87,175 books in the library.

$$\begin{array}{rcl}
 3. \text{ Number of Men} & = & 32,126 \\
 \text{Number of Women} & = & 29,089 \\
 \text{Number of children} & = & + 16,321 \\
 \hline
 \text{Total population} & = & 77,536
 \end{array}$$

So, the total population of the village is 77,536.

$$\begin{array}{rcl}
 4. \text{ The smallest six-digit number} & = & 100000 \\
 \text{The largest five-digit number} & = & + 99999 \\
 \hline
 \text{Their sum} & = & 199999
 \end{array}$$

So, we will get 1,99,999.

$$\begin{array}{rcl}
 5. \text{ The cost of the T.V.} & = & ₹ 22,640 \\
 \text{More cost of scooter than T.V.} & = & + ₹ 5,688 \\
 \hline
 \text{The cost of the scooter} & = & ₹ 28,328
 \end{array}$$

$$\begin{array}{rcl}
 \text{Now, the total cost of scooter and T.V.} & = & \text{Cost of scooter} + \text{cost of T.V.} \\
 & = & ₹ 28,328 \\
 & = & + ₹ 22,640 \\
 \hline
 & = & ₹ 50,968
 \end{array}$$

So, the total cost of scooter and T.V. is 50,968.

$$\begin{array}{rcl}
 6. \text{ Number of pair of jeans} & = & 32,482 \\
 \text{Number of shirts} & = & + 21,921 \\
 \text{Number of T-shirts} & = & + 18,254 \\
 \hline
 & = & 72,657
 \end{array}$$

So, there are 72,657 clothes in the shop.

$$\begin{array}{rcl}
 7. \text{ Cost of the the computer} & = & ₹ 33,629 \\
 \text{Cost of the camera} & = & + ₹ 4,213 \\
 \hline
 \text{Total amount} & = & ₹ 37,842
 \end{array}$$

So, he paid ₹ 37,842 for both.

$$\begin{array}{rcl}
 8. \text{ Number of passengers travelled by metro train} & = & 18,463 \\
 \text{Number of passenger travelled by bus} & = & + 17,634 \\
 \hline
 \text{Total passengers} & = & 36,097
 \end{array}$$

So, the total number of passengers are 36,097.

$$\begin{array}{rcl}
 9. \text{ Cost of the car} & = & ₹ 3,86,123 \\
 \text{The money spent} & = & + ₹ 86,129 \\
 \hline
 \text{Total cost} & = & ₹ 4,72,252
 \end{array}$$

So, the total cost of the car was ₹ 4,72,252.

$$\begin{array}{rcl}
 10. \text{ Number of books in the library} & = & 72,100 \\
 \text{Number of books bought more} & = & + 8,900 \\
 \hline
 \text{Total books now} & = & 81,000
 \end{array}$$

So, there are 81,000 books in all.

### MCQ's

1. (b) 2. (b) 3. (c) 4. (a).

### Worksheet

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| 8 | 3 | 4 | 5 | 7 |   |   | 9 |
|   |   | 2 |   |   | 5 | 0 | 9 |
| 6 | 2 | 8 | 7 | 6 |   |   | 9 |
| 8 |   | 5 | 3 | 4 | 7 | 6 | 9 |
| 7 |   |   |   |   | 7 |   | 9 |
| 4 | 5 | 6 | 4 | 5 | 7 |   |   |
| 7 |   |   |   | 6 | 7 |   |   |
| 6 |   |   | 7 | 4 | 7 | 8 | 0 |

## 5. Subtraction

### Exercise 5.1

1. (a) 

| Th    | H | T | O |   |
|-------|---|---|---|---|
| 8     | 7 | 4 | 2 |   |
| -     | 1 | 3 | 4 | 1 |
| <hr/> |   |   |   |   |
| 7     | 4 | 0 | 1 |   |
- (b) 

| Th    | H | T | O |   |
|-------|---|---|---|---|
| 5     | 4 | 8 | 9 |   |
| -     | 4 | 7 | 9 | 0 |
| <hr/> |   |   |   |   |
| 6     | 9 | 9 |   |   |
- (c) 

| Th    | H | T | O |   |
|-------|---|---|---|---|
| 9     | 2 | 5 | 7 |   |
| -     | 6 | 8 | 5 | 7 |
| <hr/> |   |   |   |   |
| 2     | 4 | 0 | 0 |   |
- (d) 

| Th    | H | T | O |   |
|-------|---|---|---|---|
| 6     | 4 | 6 | 3 |   |
| -     | 2 | 3 | 1 | 1 |
| <hr/> |   |   |   |   |
| 4     | 1 | 5 | 2 |   |
- (e) 

| Th    | H | T | O |
|-------|---|---|---|
| 2     | 2 | 3 | 7 |
| -     | 2 | 3 | 1 |
| <hr/> |   |   |   |
| 2     | 0 | 0 | 6 |
- (f) 

| Th    | H | T | O |   |
|-------|---|---|---|---|
| 9     | 4 | 5 | 6 |   |
| -     | 5 | 2 | 2 | 4 |
| <hr/> |   |   |   |   |
| 4     | 2 | 3 | 2 |   |
2. (a) 

| T     | O |   |
|-------|---|---|
| 3     | 6 |   |
| -     | 1 | 2 |
| <hr/> |   |   |
| 2     | 4 |   |
- (b) 

| H     | T | O |   |
|-------|---|---|---|
| 1     | 4 | 9 |   |
| -     | 1 | 2 | 3 |
| <hr/> |   |   |   |
| 2     | 6 |   |   |
- (c) 

| Th    | H | T | O |   |
|-------|---|---|---|---|
| 4     | 3 | 1 | 6 |   |
| -     | 1 | 2 | 0 | 1 |
| <hr/> |   |   |   |   |
| 3     | 1 | 1 | 5 |   |
- (d) 

| Th    | H               | T               | O               |   |
|-------|-----------------|-----------------|-----------------|---|
| 5     | <sup>17</sup> 8 | <sup>11</sup> 2 | <sup>14</sup> 4 |   |
| -     | 1               | 6               | 5               | 9 |
| <hr/> |                 |                 |                 |   |
| 4     | 1               | 6               | 5               |   |
- (e) 

| H     | T              | O               |   |
|-------|----------------|-----------------|---|
| 1     | <sup>4</sup> 5 | <sup>11</sup> 1 |   |
| -     | 1              | 0               | 2 |
| <hr/> |                |                 |   |
| 4     | 9              |                 |   |
- (f) 

| Th    | H | T              | O               |   |
|-------|---|----------------|-----------------|---|
| 6     | 8 | <sup>6</sup> 7 | <sup>11</sup> 4 |   |
| -     | 2 | 1              | 0               | 6 |
| <hr/> |   |                |                 |   |
| 4     | 7 | 6              | 5               |   |

### Exercise 5.2

1. (a) 

| TTh   | Th | H | T | O |   |
|-------|----|---|---|---|---|
| 6     | 5  | 6 | 1 | 3 |   |
| -     | 4  | 2 | 5 | 0 | 2 |
| <hr/> |    |   |   |   |   |
| 2     | 3  | 1 | 1 | 1 |   |
- (b) 

| TTh   | Th | H | T | O |   |
|-------|----|---|---|---|---|
| 7     | 8  | 8 | 4 | 6 |   |
| -     | 6  | 4 | 7 | 3 | 2 |
| <hr/> |    |   |   |   |   |
| 1     | 4  | 1 | 1 | 4 |   |
- (c) 

| LTTh  | Th | H | T | O |   |
|-------|----|---|---|---|---|
| 7     | 6  | 5 | 8 | 7 |   |
| -     | 3  | 2 | 4 | 8 | 0 |
| <hr/> |    |   |   |   |   |
| 4     | 4  | 1 | 0 | 7 |   |
- (d) 

| LTTh  | Th | H | T | O |   |   |
|-------|----|---|---|---|---|---|
| 8     | 5  | 8 | 9 | 3 | 2 |   |
| -     | 8  | 4 | 3 | 2 | 1 | 0 |
| <hr/> |    |   |   |   |   |   |
| 1     | 5  | 7 | 2 | 2 |   |   |
- (e) 

| LTTh  | Th | H | T | O |   |   |
|-------|----|---|---|---|---|---|
| 4     | 5  | 7 | 8 | 9 | 5 |   |
| -     | 2  | 2 | 5 | 1 | 1 | 2 |
| <hr/> |    |   |   |   |   |   |
| 2     | 3  | 2 | 7 | 8 | 3 |   |
- (f) 

| LTTh  | Th | H | T | O |   |   |
|-------|----|---|---|---|---|---|
| 8     | 1  | 8 | 6 | 9 | 8 |   |
| -     | 5  | 0 | 5 | 2 | 7 | 6 |
| <hr/> |    |   |   |   |   |   |
| 3     | 1  | 3 | 4 | 2 | 2 |   |

| <p>2. (a)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr><th>T</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr> <tr><td>-</td><td>1</td><td>3</td><td>2</td><td>0</td><td>0</td></tr> <tr><td colspan="5"><hr/></td></tr> <tr><td>4</td><td>1</td><td>1</td><td>2</td><td>1</td></tr> </tbody> </table>                                      | T  | Th | H  | T | O | 5 | 4 | 3 | 2 | 1 | - | 1 | 3 | 2 | 0 | 0 | <hr/> |   |   |       |  | 4 | 1 | 1 | 2 | 1 | <p>(b)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr><th>T</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>4</td><td>3</td><td>7</td><td>8</td><td>5</td></tr> <tr><td>-</td><td>2</td><td>1</td><td>4</td><td>6</td><td>3</td></tr> <tr><td colspan="5"><hr/></td></tr> <tr><td>2</td><td>2</td><td>3</td><td>2</td><td>2</td></tr> </tbody> </table> | T | Th | H | T | O  | 4 | 3 | 7  | 8 | 5 | - | 2 | 1 | 4 | 6 | 3 | <hr/> |   |   |   |   | 2 | 2 | 3 | 2     | 2 | <p>(c)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr><th>T</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>9</td><td>9</td><td>9</td><td>9</td><td>9</td></tr> <tr><td>-</td><td>7</td><td>7</td><td>7</td><td>7</td><td>7</td></tr> <tr><td colspan="5"><hr/></td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr> </tbody> </table> | T | Th | H | T | O | 9 | 9 | 9 | 9 | 9  | - | 7 | 7  | 7 | 7 | 7 | <hr/> |   |   |   |   | 2 | 2 | 2 | 2 | 2 |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
|--|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|---|---|-------|--|---|---|---|---|---|--|---|----|---|---|--|---|---|----|---|---|---|---|---|---|---|---|-------|---|---|---|---|---|---|---|-------|---|--|---|----|---|---|---|---|---|---|---|--|---|---|----|---|---|---|-------|---|---|---|---|---|---|---|---|---|---|---|---|-------|--|--|--|--|--|---|---|---|---|---|---|
| T  | Th | H  | T  | O |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| 5  | 4  | 3  | 2  | 1 |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| -  | 1  | 3  | 2  | 0 | 0 |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| <hr/>  |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| 4  | 1  | 1  | 2  | 1 |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| T  | Th | H  | T  | O |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| 4  | 3  | 7  | 8  | 5 |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| -  | 2  | 1  | 4  | 6 | 3 |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| <hr/>  |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| 2  | 2  | 3  | 2  | 2 |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| T  | Th | H  | T  | O |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| 9  | 9  | 9  | 9  | 9 |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| -  | 7  | 7  | 7  | 7 | 7 |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| <hr/>  |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| 2  | 2  | 2  | 2  | 2 |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| <p>(d)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr><th>L</th><th>T</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>4</td><td>5</td><td>5</td><td>3</td><td>7</td><td>9</td></tr> <tr><td>-</td><td>2</td><td>1</td><td>4</td><td>2</td><td>5</td><td>4</td></tr> <tr><td colspan="6"><hr/></td></tr> <tr><td>2</td><td>4</td><td>1</td><td>1</td><td>2</td><td>5</td></tr> </tbody> </table> | L  | T  | Th | H | T | O | 4 | 5 | 5 | 3 | 7 | 9 | - | 2 | 1 | 4 | 2     | 5 | 4 | <hr/> |  |   |   |   |   | 2 | 4  | 1 | 1  | 2 | 5 | <p>(e)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr><th>L</th><th>T</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>6</td><td>2</td><td>4</td><td>7</td><td>7</td><td>7</td></tr> <tr><td>-</td><td>2</td><td>2</td><td>3</td><td>4</td><td>1</td><td>5</td></tr> <tr><td colspan="6"><hr/></td></tr> <tr><td>4</td><td>0</td><td>1</td><td>3</td><td>6</td><td>2</td></tr> </tbody> </table> | L | T | Th | H | T | O | 6 | 2 | 4 | 7 | 7 | 7     | - | 2 | 2 | 3 | 4 | 1 | 5 | <hr/> |   |  |   |    |   | 4 | 0 | 1 | 3 | 6 | 2 | <p>(f)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr><th>L</th><th>T</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>9</td><td>5</td><td>6</td><td>8</td><td>9</td><td>3</td></tr> <tr><td>-</td><td>4</td><td>4</td><td>4</td><td>4</td><td>3</td><td>3</td></tr> <tr><td colspan="6"><hr/></td></tr> <tr><td>5</td><td>1</td><td>2</td><td>4</td><td>6</td><td>0</td></tr> </tbody> </table> | L | T | Th | H | T | O | 9     | 5 | 6 | 8 | 9 | 3 | - | 4 | 4 | 4 | 4 | 3 | 3 | <hr/> |  |  |  |  |  | 5 | 1 | 2 | 4 | 6 | 0 |
| L  | T  | Th | H  | T | O |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| 4  | 5  | 5  | 3  | 7 | 9 |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| -  | 2  | 1  | 4  | 2 | 5 | 4 |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| <hr/>  |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| 2  | 4  | 1  | 1  | 2 | 5 |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| L  | T  | Th | H  | T | O |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| 6  | 2  | 4  | 7  | 7 | 7 |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| -  | 2  | 2  | 3  | 4 | 1 | 5 |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| <hr/>  |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| 4  | 0  | 1  | 3  | 6 | 2 |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| L  | T  | Th | H  | T | O |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| 9  | 5  | 6  | 8  | 9 | 3 |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| -  | 4  | 4  | 4  | 4 | 3 | 3 |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| <hr/>  |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |
| 5  | 1  | 2  | 4  | 6 | 0 |   |   |   |   |   |   |   |   |   |   |   |       |   |   |       |  |   |   |   |   |   |  |   |    |   |   |  |   |   |    |   |   |   |   |   |   |   |   |       |   |   |   |   |   |   |   |       |   |  |   |    |   |   |   |   |   |   |   |  |   |   |    |   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |       |  |  |  |  |  |   |   |   |   |   |   |

### Exercise 5.3

| <p>1. (a)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr><th>T</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td></td><td>14</td><td>13</td><td>14</td><td></td></tr> <tr><td>6</td><td><del>4</del></td><td><del>3</del></td><td><del>4</del></td><td>15</td></tr> <tr><td><del>7</del></td><td><del>8</del></td><td><del>4</del></td><td><del>8</del></td><td><del>8</del></td></tr> <tr><td>-</td><td>4</td><td>9</td><td>9</td><td>7</td><td>8</td></tr> <tr><td colspan="5"><hr/></td></tr> <tr><td>2</td><td>5</td><td>4</td><td>7</td><td>7</td></tr> </tbody> </table>          | T            | Th            | H             | T             | O            |   | 14 | 13 | 14 |  | 6 | <del>4</del> | <del>3</del> | <del>4</del>  | 15 | <del>7</del> | <del>8</del> | <del>4</del> | <del>8</del> | <del>8</del> | -            | 4            | 9            | 9            | 7 | 8 | <hr/> |   |   |   |       | 2 | 5 | 4 | 7 | 7 | <p>(b)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr><th>T</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td></td><td>9</td><td>13</td><td></td><td></td></tr> <tr><td></td><td>0</td><td><del>10</del></td><td><del>3</del></td><td></td></tr> <tr><td>9</td><td><del>1</del></td><td><del>8</del></td><td><del>4</del></td><td><del>7</del></td></tr> <tr><td>-</td><td>6</td><td>0</td><td>7</td><td>7</td><td>9</td></tr> <tr><td colspan="5"><hr/></td></tr> <tr><td>3</td><td>0</td><td>2</td><td>6</td><td>8</td></tr> </tbody> </table>  | T | Th | H  | T | O |   | 9 | 13 |    |    |   | 0 | <del>10</del> | <del>3</del> |              | 9            | <del>1</del> | <del>8</del> | <del>4</del> | <del>7</del> | -            | 6            | 0            | 7            | 7            | 9            | <hr/> |              |              |              |   | 3     | 0 | 2 | 6 | 8 | <p>(c)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr><th>T</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>4</td><td>5</td><td><del>1</del></td><td><del>7</del></td><td><del>10</del></td></tr> <tr><td><del>8</del></td><td><del>6</del></td><td><del>7</del></td><td><del>8</del></td><td><del>8</del></td></tr> <tr><td>-</td><td>2</td><td>8</td><td>9</td><td>0</td><td>9</td></tr> <tr><td colspan="5"><hr/></td></tr> <tr><td>2</td><td>7</td><td>8</td><td>7</td><td>1</td></tr> </tbody> </table> | T     | Th | H | T | O | 4 | 5  | <del>1</del> | <del>7</del> | <del>10</del> | <del>8</del> | <del>6</del> | <del>7</del>   | <del>8</del> | <del>8</del> | -  | 2  | 8 | 9 | 0            | 9  | <hr/>         |              |              |              |              | 2            | 7            | 8            | 7            | 1            |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
|--|--------------|---------------|---------------|---------------|--------------|---|----|----|----|--|---|--------------|--------------|---------------|----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---|---|-------|---|---|---|-------|---|---|---|---|---|--|---|----|----|---|---|---|---|----|----|----|---|---|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------|--------------|--------------|--------------|---|-------|---|---|---|---|---|-------|----|---|---|---|---|--|--------------|--------------|---------------|--------------|--------------|--|--------------|--------------|----|----|---|---|--------------|----|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---|---|-------|---|---|---|---|-------|---|---|---|---|--|---|---|---|---|---|---|
| T  | Th           | H             | T             | O             |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
|  | 14           | 13            | 14            |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 6  | <del>4</del> | <del>3</del>  | <del>4</del>  | 15            |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <del>7</del>   | <del>8</del> | <del>4</del>  | <del>8</del>  | <del>8</del>  |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| -  | 4            | 9             | 9             | 7             | 8            |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <hr/>  |              |               |               |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 2  | 5            | 4             | 7             | 7             |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| T  | Th           | H             | T             | O             |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
|  | 9            | 13            |               |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
|  | 0            | <del>10</del> | <del>3</del>  |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 9  | <del>1</del> | <del>8</del>  | <del>4</del>  | <del>7</del>  |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| -  | 6            | 0             | 7             | 7             | 9            |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <hr/>  |              |               |               |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 3  | 0            | 2             | 6             | 8             |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| T  | Th           | H             | T             | O             |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 4  | 5            | <del>1</del>  | <del>7</del>  | <del>10</del> |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <del>8</del>   | <del>6</del> | <del>7</del>  | <del>8</del>  | <del>8</del>  |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| -  | 2            | 8             | 9             | 0             | 9            |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <hr/>  |              |               |               |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 2  | 7            | 8             | 7             | 1             |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <p>(d)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr><th>T</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td></td><td>12</td><td>9</td><td></td><td></td></tr> <tr><td>5</td><td>10</td><td><del>2</del></td><td><del>10</del></td><td>11</td></tr> <tr><td><del>6</del></td><td><del>8</del></td><td><del>3</del></td><td><del>8</del></td><td><del>1</del></td></tr> <tr><td>-</td><td>3</td><td>6</td><td>7</td><td>9</td><td>6</td></tr> <tr><td colspan="5"><hr/></td></tr> <tr><td>2</td><td>3</td><td>5</td><td>0</td><td>5</td></tr> </tbody> </table>                         | T            | Th            | H             | T             | O            |   | 12 | 9  |    |  | 5 | 10           | <del>2</del> | <del>10</del> | 11 | <del>6</del> | <del>8</del> | <del>3</del> | <del>8</del> | <del>1</del> | -            | 3            | 6            | 7            | 9 | 6 | <hr/> |   |   |   |       | 2 | 3 | 5 | 0 | 5 | <p>(e)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr><th>L</th><th>T</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td></td><td>14</td><td>11</td><td>11</td><td></td><td></td></tr> <tr><td></td><td>8</td><td><del>1</del></td><td><del>1</del></td><td><del>1</del></td><td><del>1</del></td></tr> <tr><td>8</td><td><del>9</del></td><td><del>8</del></td><td><del>2</del></td><td><del>1</del></td><td><del>1</del></td></tr> <tr><td>-</td><td>4</td><td>6</td><td>7</td><td>9</td><td>9</td><td>7</td></tr> <tr><td colspan="6"><hr/></td></tr> <tr><td>4</td><td>2</td><td>7</td><td>2</td><td>2</td><td>4</td></tr> </tbody> </table> | L | T  | Th | H | T | O   |   | 14 | 11 | 11 |   |   |               | 8            | <del>1</del> | <del>1</del> | <del>1</del> | <del>1</del> | 8            | <del>9</del> | <del>8</del> | <del>2</del> | <del>1</del> | <del>1</del> | -            | 4            | 6     | 7            | 9            | 9            | 7 | <hr/> |   |   |   |   |   | 4     | 2  | 7 | 2 | 2 | 4 | <p>(f)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr><th>L</th><th>T</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td></td><td>9</td><td>10</td><td>10</td><td></td><td></td></tr> <tr><td>5</td><td>1</td><td><del>10</del></td><td><del>8</del></td><td><del>8</del></td><td>14</td></tr> <tr><td><del>6</del></td><td><del>2</del></td><td><del>8</del></td><td><del>1</del></td><td><del>1</del></td><td><del>4</del></td></tr> <tr><td>-</td><td>3</td><td>5</td><td>9</td><td>8</td><td>5</td><td>8</td></tr> <tr><td colspan="6"><hr/></td></tr> <tr><td>2</td><td>6</td><td>0</td><td>2</td><td>5</td><td>6</td></tr> </tbody> </table> | L            | T            | Th            | H            | T            | O  |              | 9            | 10 | 10 |   |   | 5            | 1  | <del>10</del> | <del>8</del> | <del>8</del> | 14           | <del>6</del> | <del>2</del> | <del>8</del> | <del>1</del> | <del>1</del> | <del>4</del> | - | 3 | 5     | 9 | 8 | 5 | 8 | <hr/> |   |   |   |   |  | 2 | 6 | 0 | 2 | 5 | 6 |
| T  | Th           | H             | T             | O             |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
|  | 12           | 9             |               |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 5  | 10           | <del>2</del>  | <del>10</del> | 11            |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <del>6</del>   | <del>8</del> | <del>3</del>  | <del>8</del>  | <del>1</del>  |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| -  | 3            | 6             | 7             | 9             | 6            |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <hr/>  |              |               |               |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 2  | 3            | 5             | 0             | 5             |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| L  | T            | Th            | H             | T             | O            |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
|  | 14           | 11            | 11            |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
|  | 8            | <del>1</del>  | <del>1</del>  | <del>1</del>  | <del>1</del> |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 8  | <del>9</del> | <del>8</del>  | <del>2</del>  | <del>1</del>  | <del>1</del> |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| -  | 4            | 6             | 7             | 9             | 9            | 7 |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <hr/>  |              |               |               |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 4  | 2            | 7             | 2             | 2             | 4            |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| L  | T            | Th            | H             | T             | O            |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
|  | 9            | 10            | 10            |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 5  | 1            | <del>10</del> | <del>8</del>  | <del>8</del>  | 14           |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <del>6</del>   | <del>2</del> | <del>8</del>  | <del>1</del>  | <del>1</del>  | <del>4</del> |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| -  | 3            | 5             | 9             | 8             | 5            | 8 |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <hr/>  |              |               |               |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 2  | 6            | 0             | 2             | 5             | 6            |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <p>2. (a)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr><th>T</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td></td><td></td><td>9</td><td></td><td></td></tr> <tr><td>5</td><td>13</td><td>7</td><td><del>10</del></td><td>14</td></tr> <tr><td><del>6</del></td><td><del>3</del></td><td><del>8</del></td><td><del>8</del></td><td><del>4</del></td></tr> <tr><td>-</td><td>3</td><td>8</td><td>7</td><td>9</td><td>7</td></tr> <tr><td colspan="5"><hr/></td></tr> <tr><td>2</td><td>5</td><td>0</td><td>0</td><td>7</td></tr> </tbody> </table>                                   | T            | Th            | H             | T             | O            |   |    | 9  |    |  | 5 | 13           | 7            | <del>10</del> | 14 | <del>6</del> | <del>3</del> | <del>8</del> | <del>8</del> | <del>4</del> | -            | 3            | 8            | 7            | 9 | 7 | <hr/> |   |   |   |       | 2 | 5 | 0 | 0 | 7 | <p>(b)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr><th>L</th><th>T</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td></td><td></td><td>12</td><td></td><td></td><td></td></tr> <tr><td></td><td>3</td><td>15</td><td><del>2</del></td><td>15</td><td></td></tr> <tr><td>9</td><td>8</td><td><del>4</del></td><td><del>6</del></td><td><del>3</del></td><td><del>8</del></td></tr> <tr><td>-</td><td>6</td><td>3</td><td>3</td><td>7</td><td>4</td><td>8</td></tr> <tr><td colspan="6"><hr/></td></tr> <tr><td>3</td><td>5</td><td>0</td><td>8</td><td>8</td><td>7</td></tr> </tbody> </table>  | L | T  | Th | H | T | O   |   |    | 12 |    |   |   |               | 3            | 15           | <del>2</del> | 15           |              | 9            | 8            | <del>4</del> | <del>6</del> | <del>3</del> | <del>8</del> | -            | 6            | 3     | 3            | 7            | 4            | 8 | <hr/> |   |   |   |   |   | 3     | 5  | 0 | 8 | 8 | 7 | <p>(c)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr><th>T</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td></td><td>10</td><td></td><td></td><td></td></tr> <tr><td></td><td>5</td><td><del>8</del></td><td>17</td><td>14</td></tr> <tr><td>7</td><td><del>6</del></td><td><del>1</del></td><td><del>7</del></td><td>8</td></tr> <tr><td>-</td><td>6</td><td>4</td><td>8</td><td>9</td><td>4</td></tr> <tr><td colspan="5"><hr/></td></tr> <tr><td>1</td><td>1</td><td>2</td><td>8</td><td>4</td></tr> </tbody> </table>   | T            | Th           | H             | T            | O            |  | 10           |              |    |    |   | 5 | <del>8</del> | 17 | 14            | 7            | <del>6</del> | <del>1</del> | <del>7</del> | 8            | -            | 6            | 4            | 8            | 9 | 4 | <hr/> |   |   |   |   | 1     | 1 | 2 | 8 | 4 |  |   |   |   |   |   |   |
| T  | Th           | H             | T             | O             |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
|  |              | 9             |               |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 5  | 13           | 7             | <del>10</del> | 14            |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <del>6</del>   | <del>3</del> | <del>8</del>  | <del>8</del>  | <del>4</del>  |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| -  | 3            | 8             | 7             | 9             | 7            |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <hr/>  |              |               |               |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 2  | 5            | 0             | 0             | 7             |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| L  | T            | Th            | H             | T             | O            |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
|  |              | 12            |               |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
|  | 3            | 15            | <del>2</del>  | 15            |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 9  | 8            | <del>4</del>  | <del>6</del>  | <del>3</del>  | <del>8</del> |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| -  | 6            | 3             | 3             | 7             | 4            | 8 |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <hr/>  |              |               |               |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 3  | 5            | 0             | 8             | 8             | 7            |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| T  | Th           | H             | T             | O             |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
|  | 10           |               |               |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
|  | 5            | <del>8</del>  | 17            | 14            |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 7  | <del>6</del> | <del>1</del>  | <del>7</del>  | 8             |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| -  | 6            | 4             | 8             | 9             | 4            |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <hr/>  |              |               |               |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 1  | 1            | 2             | 8             | 4             |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <p>(d)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr><th>L</th><th>T</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td></td><td></td><td>10</td><td></td><td></td><td></td></tr> <tr><td></td><td>7</td><td>10</td><td>6</td><td><del>8</del></td><td>17</td></tr> <tr><td>8</td><td>8</td><td><del>8</del></td><td><del>7</del></td><td><del>1</del></td><td><del>7</del></td></tr> <tr><td>-</td><td>6</td><td>2</td><td>5</td><td>1</td><td>9</td></tr> <tr><td colspan="6"><hr/></td></tr> <tr><td>8</td><td>1</td><td>8</td><td>1</td><td>9</td><td>8</td></tr> </tbody> </table> | L            | T             | Th            | H             | T            | O |    |    | 10 |  |   |              |              | 7             | 10 | 6            | <del>8</del> | 17           | 8            | 8            | <del>8</del> | <del>7</del> | <del>1</del> | <del>7</del> | - | 6 | 2     | 5 | 1 | 9 | <hr/> |   |   |   |   |   | 8  | 1 | 8  | 1  | 9 | 8 | <p>(e)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr><th>L</th><th>T</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td></td><td></td><td>10</td><td></td><td></td><td></td></tr> <tr><td></td><td>4</td><td>15</td><td>5</td><td><del>8</del></td><td>18</td></tr> <tr><td><del>8</del></td><td><del>8</del></td><td>8</td><td><del>6</del></td><td><del>1</del></td><td><del>8</del></td></tr> <tr><td>-</td><td>2</td><td>6</td><td>3</td><td>4</td><td>4</td><td>9</td></tr> <tr><td colspan="6"><hr/></td></tr> <tr><td>2</td><td>9</td><td>5</td><td>1</td><td>6</td><td>9</td></tr> </tbody> </table> | L | T  | Th | H  | T | O |               |              | 10           |              |              |              |              | 4            | 15           | 5            | <del>8</del> | 18           | <del>8</del> | <del>8</del> | 8     | <del>6</del> | <del>1</del> | <del>8</del> | - | 2     | 6 | 3 | 4 | 4 | 9   | <hr/> |    |   |   |   |   | 2  | 9            | 5            | 1             | 6            | 9            | <p>(f)</p> <table style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr><th>T</th><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>7</td><td>2</td><td>9</td><td>8</td><td>7</td></tr> <tr><td>-</td><td>3</td><td>2</td><td>6</td><td>2</td><td>4</td></tr> <tr><td colspan="5"><hr/></td></tr> <tr><td>4</td><td>0</td><td>3</td><td>6</td><td>3</td></tr> </tbody> </table> | T            | Th           | H  | T  | O | 7 | 2            | 9  | 8             | 7            | -            | 3            | 2            | 6            | 2            | 4            | <hr/>        |              |   |   |       | 4 | 0 | 3 | 6 | 3     |   |   |   |   |  |   |   |   |   |   |   |
| L  | T            | Th            | H             | T             | O            |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
|  |              | 10            |               |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
|  | 7            | 10            | 6             | <del>8</del>  | 17           |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 8  | 8            | <del>8</del>  | <del>7</del>  | <del>1</del>  | <del>7</del> |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| -  | 6            | 2             | 5             | 1             | 9            |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <hr/>  |              |               |               |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 8  | 1            | 8             | 1             | 9             | 8            |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| L  | T            | Th            | H             | T             | O            |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
|  |              | 10            |               |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
|  | 4            | 15            | 5             | <del>8</del>  | 18           |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <del>8</del>   | <del>8</del> | 8             | <del>6</del>  | <del>1</del>  | <del>8</del> |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| -  | 2            | 6             | 3             | 4             | 4            | 9 |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <hr/>  |              |               |               |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 2  | 9            | 5             | 1             | 6             | 9            |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| T  | Th           | H             | T             | O             |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 7  | 2            | 9             | 8             | 7             |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| -  | 3            | 2             | 6             | 2             | 4            |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| <hr/>  |              |               |               |               |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |
| 4  | 0            | 3             | 6             | 3             |              |   |    |    |    |  |   |              |              |               |    |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |       |   |   |   |   |   |  |   |    |    |   |   |   |   |    |    |    |   |   |               |              |              |              |              |              |              |              |              |              |              |              |              |              |       |              |              |              |   |       |   |   |   |   |   |       |    |   |   |   |   |  |              |              |               |              |              |  |              |              |    |    |   |   |              |    |               |              |              |              |              |              |              |              |              |              |   |   |       |   |   |   |   |       |   |   |   |   |  |   |   |   |   |   |   |

### Exercise 5.4

1. a.  $16,172 - 0 = 16172$                       b.  $52,999 - 1 = 52998$   
 c.  $28,172 - 1 = 28,171$                       d.  $1,14,234 - 0 = 1,14,234$

### Exercise 5.5

1. Money that Anjali has = ₹ 12,506  
 Money spent by her for DVD player = ₹ 3,946  
 Money is left with her = ₹ 12,506 - ₹ 3,946 = ₹ 8560  
 Thus ₹ 8560 left with her.
2. Total number of people = 49,652  
 Number of people moved away = 6998  
 People are left in the town = 49652 - 6998 = 42654  
 Thus, 42654 people are left in the town.

3. Number of fish = 8,46,649  
 Number of frogs = 9,23,966  
 Number of frogs more than fish = 9,23,966 – 846649 = 77,317  
 Thus, 77316 more frogs were there in the pond.
4. Number of apples harvested = 61322  
 Number of apples sold = 19817  
 Number of apples are left = 61322 – 19817 = 41505  
 Thus, 41505 apples are left.
5. Money that Pradeep earned = ₹ 6,49,530  
 Money that he gave to his brother = ₹ 3,49,990  
 Money left with Pradeep = ₹ 649530 – ₹ 349990 = ₹ 299540  
 Thus, ₹ 299450 are left with Pradeep.

### Exercise 5.6

1. a.

|   | T            | T            | H            | T            | O            |
|---|--------------|--------------|--------------|--------------|--------------|
|   |              | 11           | 15           | 15           |              |
|   | 4            | <del>1</del> | <del>5</del> | <del>5</del> | 17           |
|   | <del>5</del> | <del>2</del> | <del>6</del> | <del>6</del> | <del>7</del> |
| – | 1            | 4            | 9            | 9            | 8            |
| – | 3            | 7            | 6            | 6            | 9            |

Check :

|   | T            | T            | H            | T            | O            |
|---|--------------|--------------|--------------|--------------|--------------|
|   | 1            | 1            | 1            | 1            |              |
|   | <del>1</del> | <del>4</del> | <del>9</del> | <del>9</del> | <del>8</del> |
| + | 3            | 7            | 6            | 6            | 9            |
| – | 5            | 2            | 6            | 6            | 7            |

b.

|   | T            | T            | H            | T            | O            |
|---|--------------|--------------|--------------|--------------|--------------|
|   |              | 12           | 16           | 11           |              |
|   | 5            | <del>2</del> | <del>6</del> | <del>1</del> | 10           |
|   | <del>6</del> | <del>3</del> | <del>7</del> | <del>2</del> | <del>8</del> |
| – | 2            | 3            | 9            | 7            | 9            |
| – | 3            | 9            | 7            | 4            | 1            |

Check :

|   | T            | T            | H            | T            | O |
|---|--------------|--------------|--------------|--------------|---|
|   | 1            | 1            | 1            | 1            |   |
|   | <del>2</del> | <del>3</del> | <del>9</del> | <del>7</del> | 9 |
| + | 3            | 9            | 7            | 4            | 1 |
| – | 6            | 3            | 7            | 2            | 0 |

c.

|   | T            | T            | H            | T            | O            |
|---|--------------|--------------|--------------|--------------|--------------|
|   |              | 14           | 10           | 14           |              |
|   | 6            | <del>4</del> | <del>8</del> | <del>4</del> | 11           |
|   | <del>7</del> | <del>5</del> | <del>1</del> | <del>5</del> | <del>1</del> |
| – | 4            | 5            | 4            | 9            | 4            |
| – | 2            | 9            | 6            | 5            | 7            |

Check :

|   | T            | T            | H            | T            | O |
|---|--------------|--------------|--------------|--------------|---|
|   | 1            | 1            | 1            | 1            |   |
|   | <del>4</del> | <del>5</del> | <del>4</del> | <del>9</del> | 4 |
| + | 2            | 9            | 6            | 5            | 7 |
| – | 7            | 5            | 1            | 5            | 1 |

d.

|   | L            | T            | T            | H            | T            | O            |
|---|--------------|--------------|--------------|--------------|--------------|--------------|
|   |              | 9            | 14           | 10           | 10           |              |
|   | 2            | <del>1</del> | <del>4</del> | <del>8</del> | <del>8</del> |              |
|   | <del>3</del> | <del>8</del> | <del>5</del> | <del>1</del> | <del>1</del> | <del>1</del> |
| – | 1            | 2            | 8            | 2            | 2            | 2            |
| – | 1            | 7            | 6            | 8            | 8            | 9            |

Check :

|   | L            | T            | T            | H            | T            | O            |
|---|--------------|--------------|--------------|--------------|--------------|--------------|
|   | 1            | 1            | 1            | 1            | 1            |              |
|   | <del>1</del> | <del>2</del> | <del>8</del> | <del>2</del> | <del>2</del> | <del>2</del> |
| + | 1            | 7            | 6            | 8            | 8            | 9            |
| – | 3            | 0            | 5            | 1            | 1            | 1            |

e.

|   | T            | T            | H            | T            | O            |
|---|--------------|--------------|--------------|--------------|--------------|
|   |              | 9            | 16           | 9            |              |
|   | 6            | <del>1</del> | <del>6</del> | <del>1</del> | 17           |
|   | <del>7</del> | <del>8</del> | <del>7</del> | <del>8</del> | <del>7</del> |
| – | 6            | 3            | 9            | 2            | 9            |
| – | 6            | 7            | 7            | 8            |              |

Check :

|   | T            | T            | H            | T            | O |
|---|--------------|--------------|--------------|--------------|---|
|   | 1            | 1            | 1            | 1            |   |
|   | <del>6</del> | <del>3</del> | <del>9</del> | <del>2</del> | 9 |
| + | 6            | 7            | 7            | 8            |   |
| – | 7            | 0            | 7            | 0            | 7 |

|    |          |           |           |          |          |          |
|----|----------|-----------|-----------|----------|----------|----------|
| f. | <b>T</b> | <b>Th</b> | <b>Th</b> | <b>H</b> | <b>T</b> | <b>O</b> |
|    | 4        | 13        | 4         | 10       |          |          |
|    | ₪        | ₪         | ₪         | ₪        | ₪        | ₪        |
|    | –        | 1         | 8         | 1        | 8        | 2        |
|    |          | 3         | 5         | 3        | 2        | 6        |

|                |          |           |           |          |          |          |
|----------------|----------|-----------|-----------|----------|----------|----------|
| <b>Check :</b> | <b>T</b> | <b>Th</b> | <b>Th</b> | <b>H</b> | <b>T</b> | <b>O</b> |
|                | 1        | 8         | 1         | 8        | 2        |          |
|                | +        | 3         | 5         | 3        | 2        | 6        |
|                |          | 5         | 3         | 5        | 0        | 8        |

### MCQ's

1. (c) 2. (a) 3. (a) 4. (b).

### Worksheet

- (a)  $2013 - 1790 = 223$       (b)  $2013 - 1620 = 393$       (c)  $2013 - 1940 = 73$   
 (d)  $2013 - 1903 = 110$       (e)  $2013 - 1981 = 32$

### Formative Assessment-1

1. (c) 2. (c) 3. (a) 4. (a) 5. (c) 6. (b) 7. (a) 8. (b) 9. (b) 10. (b).

## 6. Multiplication

### Exercise 6.1

1. a. 

|          |          |          |          |
|----------|----------|----------|----------|
| <b>T</b> | <b>H</b> | <b>T</b> | <b>O</b> |
|          | 6        | 7        |          |
|          | ×        | 2        |          |
|          | 1        | 3        | 4        |

b. 

|          |          |          |          |   |
|----------|----------|----------|----------|---|
| <b>T</b> | <b>H</b> | <b>T</b> | <b>O</b> |   |
|          | 7        | 1        | 3        |   |
|          | ×        | 5        |          |   |
|          | 3        | 5        | 6        | 5 |

c. 

|          |          |          |          |   |
|----------|----------|----------|----------|---|
| <b>T</b> | <b>H</b> | <b>T</b> | <b>O</b> |   |
|          | 2        | 3        | 5        |   |
|          | ×        | 7        |          |   |
|          | 1        | 6        | 4        | 5 |

d. 

|          |          |          |          |   |
|----------|----------|----------|----------|---|
| <b>T</b> | <b>H</b> | <b>T</b> | <b>O</b> |   |
|          | 4        | 6        | 7        | 3 |
|          | ×        | 2        |          |   |
|          | 9        | 3        | 4        | 6 |

e. 

|          |          |          |          |   |   |
|----------|----------|----------|----------|---|---|
| <b>T</b> | <b>H</b> | <b>T</b> | <b>O</b> |   |   |
|          | 9        | 6        | 8        |   |   |
|          | ×        | 1        | 5        |   |   |
|          | 4        | 8        | 4        | 0 |   |
|          | 9        | 6        | 8        | × |   |
|          | 1        | 4        | 5        | 2 | 0 |

f. 

|          |          |          |          |   |   |
|----------|----------|----------|----------|---|---|
| <b>T</b> | <b>H</b> | <b>T</b> | <b>O</b> |   |   |
|          |          | 4        | 6        |   |   |
|          |          | ×        | 2        | 7 |   |
|          |          | 3        | 2        | 2 |   |
|          |          | 9        | 2        | × |   |
|          |          | 1        | 2        | 4 | 2 |

### Exercise 6.2

1. a.  $318 \times 0 = 0$       b.  $9871 \times 0 = 0$   
 c.  $28 \times 167 = 167 \times 28$       d.  $2789 \times 928 = 928 \times 2789$   
 e.  $138 \times (413 \times 644) = (138 \times 413) \times 644$   
 f.  $527 \times (25 + 68) = 527 \times 25 + 527 \times 68$

### Exercise 6.3

1. a.  $67 \times 10 = 670$       b.  $4679 \times 10 = 46790$       c.  $79 \times 100 = 7900$   
 d.  $486 \times 100 = 48600$       e.  $829 \times 1000 = 829000$       f.  $19 \times 1000 = 19000$
2. (a)  $91 \times 30 = (91 \times 3) \times 10$   
 $= 273 \times 10$   
 $= 2,730$
- (b)  $218 \times 50 = (218 \times 5) \times 10$   
 $= 1090 \times 10$   
 $= 10,900$
- |   |   |   |
|---|---|---|
| 9 | 1 |   |
| × | 3 |   |
| 2 | 7 | 3 |
- |   |   |   |   |
|---|---|---|---|
| 2 | 1 | 8 |   |
| × | 5 |   |   |
| 1 | 0 | 9 | 0 |

$$\begin{aligned} \text{(c)} \quad 3122 \times 20 &= (3122 \times 2) \times 10 \\ &= 6244 \times 10 \\ &= 62,440 \end{aligned}$$

$$\begin{array}{r} 3 \ 1 \ 2 \ 2 \\ \times 2 \\ \hline 6 \ 2 \ 4 \ 4 \end{array}$$

$$\begin{aligned} \text{(d)} \quad 630 \times 500 &= (630 \times 5) \times 100 \\ &= 3150 \times 100 \\ &= 315,000 \end{aligned}$$

$$\begin{array}{r} 6 \ 3 \ 0 \\ \times 5 \\ \hline 3 \ 1 \ 5 \ 0 \end{array}$$

$$\begin{aligned} \text{(e)} \quad 98 \times 200 &= (98 \times 2) \times 100 \\ &= 196 \times 100 \\ &= 19,600 \end{aligned}$$

$$\begin{array}{r} 9 \ 8 \\ \times 2 \\ \hline 1 \ 9 \ 6 \end{array}$$

$$\begin{aligned} \text{(f)} \quad 313 \times 400 &= (313 \times 4) \times 100 \\ &= 1252 \times 100 \\ &= 1,25,200 \end{aligned}$$

$$\begin{array}{r} 3 \ 1 \ 3 \\ \times 4 \\ \hline 1 \ 2 \ 5 \ 2 \end{array}$$

$$\begin{aligned} \text{(g)} \quad 99 \times 4000 &= (99 \times 4) \times 1000 \\ &= 396 \times 1000 \\ &= 3,96,000 \end{aligned}$$

$$\begin{array}{r} 9 \ 9 \\ \times 4 \\ \hline 3 \ 9 \ 6 \end{array}$$

$$\begin{aligned} \text{(h)} \quad 1203 \times 700 &= (1203 \times 7) \times 100 \\ &= 8421 \times 100 \\ &= 8,42,100 \end{aligned}$$

$$\begin{array}{r} 1 \ 2 \ 0 \ 3 \\ \times 7 \\ \hline 8 \ 4 \ 2 \ 1 \end{array}$$

$$\begin{aligned} \text{(i)} \quad 908 \times 6000 &= (908 \times 6) \times 1000 \\ &= 5448 \times 1000 \\ &= 5,44,48,000 \end{aligned}$$

$$\begin{array}{r} 9 \ 0 \ 8 \\ \times 6 \\ \hline 5 \ 4 \ 4 \ 8 \end{array}$$

3. (a)  $10 \times 20 \times 30 = (10 \times 20) \times 30 = 200 \times 30 = 6,000$   
 (b)  $40 \times 30 \times 50 = (40 \times 30) \times 50 = 1200 \times 50 = 60,000$   
 (c)  $10 \times 100 \times 4 = (10 \times 100) \times 4 = 1000 \times 4 = 4,000$   
 (d)  $150 \times 10 \times 50 = (150 \times 10) \times 50 = 1500 \times 50 = 75,000$   
 (e)  $120 \times 10 \times 20 = (120 \times 10) \times 20 = 1200 \times 20 = 24,000$   
 (f)  $50 \times 60 \times 90 = (50 \times 60) \times 90 = 3000 \times 90 = 2,70,000$

### Exercise 6.4

1. (a) 
$$\begin{array}{r} 8 \ 9 \ 1 \\ \times 4 \ 9 \\ \hline 8 \ 0 \ 1 \ 9 \\ 3 \ 5 \ 6 \ 4 \times \\ \hline 4 \ 3 \ 6 \ 5 \ 9 \end{array}$$

(b) 
$$\begin{array}{r} 1 \ 3 \ 2 \ 5 \\ \times 9 \ 2 \\ \hline 2 \ 6 \ 5 \ 0 \\ 1 \ 1 \ 9 \ 2 \ 5 \times \\ \hline 1 \ 2 \ 1 \ 9 \ 0 \ 0 \end{array}$$

(c) 
$$\begin{array}{r} 6 \ 5 \ 1 \\ \times 1 \ 4 \ 7 \\ \hline 4 \ 5 \ 5 \ 7 \\ 2 \ 6 \ 0 \ 4 \times \\ 6 \ 5 \ 1 \times \times \\ \hline 9 \ 5 \ 6 \ 9 \ 7 \end{array}$$

2. (a) 
$$\begin{array}{r} 6 \ 4 \ 8 \\ \times 2 \ 7 \\ \hline 4 \ 5 \ 3 \ 6 \\ 1 \ 2 \ 9 \ 6 \times \\ \hline 1 \ 7 \ 4 \ 9 \ 6 \end{array}$$

(b) 
$$\begin{array}{r} 1 \ 5 \ 5 \ 5 \\ \times 4 \ 5 \\ \hline 7 \ 7 \ 7 \ 5 \\ 6 \ 2 \ 2 \ 0 \times \\ \hline 6 \ 9 \ 9 \ 7 \ 5 \end{array}$$

(c) 
$$\begin{array}{r} 2 \ 9 \ 3 \ 6 \\ \times 9 \ 8 \\ \hline 2 \ 3 \ 4 \ 8 \ 8 \\ 2 \ 6 \ 4 \ 2 \ 4 \times \\ \hline 2 \ 8 \ 7 \ 7 \ 2 \ 8 \end{array}$$



$$\begin{array}{r}
 \text{(d)} \quad \begin{array}{r} 5 \ 6 \ 4 \ 3 \\ \times 5 \ 7 \\ \hline 3 \ 9 \ 5 \ 0 \ 1 \\ 2 \ 8 \ 2 \ 1 \ 5 \times \\ \hline 3 \ 2 \ 1 \ 6 \ 5 \ 1 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad \begin{array}{r} 2 \ 2 \ 4 \\ \times 1 \ 2 \ 4 \\ \hline 8 \ 9 \ 6 \\ 4 \ 4 \ 8 \times \\ 2 \ 2 \ 4 \times \times \\ \hline 2 \ 7 \ 7 \ 7 \ 6 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad \begin{array}{r} 2 \ 1 \ 7 \\ \times 7 \ 3 \ 1 \\ \hline 2 \ 1 \ 7 \\ 6 \ 5 \ 1 \times \\ 1 \ 5 \ 1 \ 9 \times \\ \hline 2 \ 1 \ 9 \ 1 \ 7 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(g)} \quad \begin{array}{r} 5 \ 7 \ 2 \ 4 \\ \times 1 \ 4 \ 2 \\ \hline 1 \ 1 \ 4 \ 4 \ 8 \\ 2 \ 2 \ 8 \ 9 \ 6 \times \\ 5 \ 7 \ 2 \ 4 \times \times \\ \hline 8 \ 1 \ 2 \ 8 \ 0 \ 8 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(h)} \quad \begin{array}{r} 3 \ 1 \ 3 \ 4 \\ \times 2 \ 7 \ 6 \\ \hline 1 \ 8 \ 8 \ 0 \ 4 \\ 2 \ 1 \ 9 \ 3 \ 8 \times \\ 6 \ 2 \ 6 \ 8 \times \times \\ \hline 8 \ 6 \ 4 \ 9 \ 8 \ 4 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(i)} \quad \begin{array}{r} 4 \ 3 \ 0 \\ \times 4 \ 5 \ 6 \\ \hline 2 \ 5 \ 8 \ 0 \\ 2 \ 1 \ 5 \ 0 \times \\ 1 \ 7 \ 2 \ 0 \times \times \\ \hline 1 \ 9 \ 6 \ 0 \ 8 \ 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(j)} \quad \begin{array}{r} 8 \ 9 \ 2 \\ \times 3 \ 7 \ 8 \\ \hline 7 \ 1 \ 3 \ 6 \\ 6 \ 2 \ 4 \ 4 \times \\ 2 \ 6 \ 7 \ 6 \times \times \\ \hline 3 \ 3 \ 7 \ 1 \ 7 \ 6 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(k)} \quad \begin{array}{r} 5 \ 8 \ 9 \\ \times 5 \ 6 \ 8 \\ \hline 4 \ 7 \ 1 \ 2 \\ 3 \ 5 \ 3 \ 4 \times \\ 2 \ 9 \ 4 \ 5 \times \times \\ \hline 3 \ 3 \ 4 \ 5 \ 5 \ 2 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(l)} \quad \begin{array}{r} 8 \ 3 \ 7 \\ \times 7 \ 7 \ 8 \\ \hline 6 \ 6 \ 9 \ 6 \\ 5 \ 8 \ 5 \ 9 \times \\ 3 \ 3 \ 4 \ 8 \times \times \\ \hline 4 \ 0 \ 0 \ 0 \ 8 \ 6 \end{array}
 \end{array}$$

### Exercise 6.5

1.  $\therefore$  Cost of 1 printer = ₹ 1685  
 $\therefore$  Cost of 32 printers = ₹ 1685  $\times$  32  
= ₹ 53,920  
So, the cost of 32 printers is ₹ 53,920.

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

2.  $\therefore$  The weight of 1 packet = 485 grams  
 $\therefore$  The weight of 54 packets = 485  $\times$  54  
= 26,190 grams  
So, the total weight of 54 packets is 26,190 grams.

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

3. The monthly fees of each student = ₹ 4630  
The yearly fees of each student = ₹ 4630  $\times$  12  
= ₹ 55,560  
So, a student will pay ₹ 55,560 in one year.

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

4.  $\therefore$  The weight of 1 sugar bag = 240 kg  
 $\therefore$  The weight of 673 sugar bags = 673  $\times$  240 kg  
= 1,61,520 kg.

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

5.  $\therefore$  The distance travelled in one hour = 182 km.  
 $\therefore$  The distance travelled in 235 hours =  $182 \times 235$   
 $= 42,770$  km.  
 So, the train can travel 42,770 km. in 235 hours.

$$\begin{array}{r} 182 \\ \times 235 \\ \hline 910 \\ 546 \times \\ 364 \times \times \\ \hline 42770 \end{array}$$

6.  $\therefore$  Number of persons in a cinema hall = 1825  
 $\therefore$  Number of persons in 210 cinema halls =  $1825 \times 210$   
 $= 3,83,250$   
 So, 3,83,250 persons can sit in 210 cinema halls.

$$\begin{array}{r} 1825 \\ \times 210 \\ \hline 0000 \\ 1825 \times \\ 3650 \times \times \\ \hline 383250 \end{array}$$

7.  $\therefore$  Cost of 1 bicycle = ₹ 665  
 $\therefore$  Cost of 285 bicycles = ₹  $665 \times 285$   
 $= ₹ 1,89,525$   
 So, the dealer pays ₹ 1,89,525 for 285 bicycles.

$$\begin{array}{r} 665 \\ \times 285 \\ \hline 3325 \\ 5320 \times \\ 1330 \times \times \\ \hline 189525 \end{array}$$

8.  $\therefore$  The cost of 1 transistor set = ₹ 257  
 $\therefore$  The cost of 352 transistor sets = ₹  $257 \times 352$   
 $= ₹ 90,464$   
 So, the cost of 352 transistor sets = ₹  $257 \times 352 = ₹ 90,464$

$$\begin{array}{r} 257 \\ \times 352 \\ \hline 514 \\ 1285 \times \\ 771 \times \times \\ \hline 90464 \end{array}$$

9.  $\therefore$  Number of tins produced in 1 day = 568  
 $\therefore$  Number of tins produced in 297 days =  $568 \times 297$   
 $= 1,68,686$   
 So, 1,68,686 tins will be produced in 297 working days.

$$\begin{array}{r} 568 \\ \times 297 \\ \hline 3976 \\ 5112 \times \\ 1136 \times \times \\ \hline 168686 \end{array}$$

10.  $\therefore$  Fees paid by 1 pupil = ₹ 155  
 $\therefore$  Fees paid by 520 pupils = ₹  $155 \times 520$   
 $= ₹ 80,600$   
 So, the total amount of fees received per month is ₹ 80,600.

$$\begin{array}{r} 155 \\ \times 520 \\ \hline 000 \\ 310 \times \\ 775 \times \times \\ \hline 80600 \end{array}$$