1. **Write the following numerals in words :**
Ans. (a) 3974—Three thousand nine hundred seventy-four
(b) 9789—Nine thousand seven hundred eighty-nine
(c) 1483—One thousand four hundred eighty-three
(d) 4200—Four thousand two hundred
(e) 9638—Nine thousand six hundred thirty eight
(f) 8468—Eight thousand four hundred seventy eight

2. **Write the following number names in figures :**
Ans. (a) Four thousand sixty-four—**4064**
(b) Two thousand four hundred seventy-five—**2475**
(c) Three thousand nine hundred ninety—**3990**
(d) Three thousand four hundred five—**3405**
(e) Four thousand two hundred sixty-seven—**4267**

3. **See the pattern carefully and write the numbers in the blanks :**
Ans. (a) 1225, 1235, 1245, **1255, 1265, 1275**
(b) 3880, 3890, 3900, **3910, 3920, 3930**
(c) 7500, 7800, 8100, **8400, 8700, 9000**
(d) 9395, 9195, 8995, **8795, 8595, 8395**
(e) 4823, 5823, 6823, **7823, 8823, 9823**
(f) 5000, 4000, 3000, **2000, 1000, 0**

4. **Write the place value of underline digit in the following numbers :**
Ans. (a) 479$\underline{5}$ **5**   (b) 7$\underline{4}$73   **3**
(c) 234$\underline{5}$ **5**   (d) 85$\underline{3}$4   **30**
(e) 463$\underline{2}$ **2**   (f) 7$\underline{2}$41   **200**
(g) 63$\underline{2}$1   **20**   (h) 8$\underline{1}$53   **100**
(i) 90$\underline{9}$9   **90**   (j) 91$\underline{2}$3   **20**
(k) 8$\underline{4}$63   **400**   (l) 54$\underline{3}$2   **30**

5. **Write the smallest and greatest numbers using all the digits :**

Ans.

	Smallest	Greatest
(a) 4, 5, 0, 1	1045	5410
(b) 5, 0, 3, 7	3057	7530
(c) 9, 0, 8, 4	4089	9840
(d) 5, 4, 3, 2	2345	5432
(e) 9, 7, 5, 4	4579	9754

6. **State true or false :**
Ans. (a) $1323 + 0 = 0 + 1323 + 0$ **True**
(b) $5348 - 2648 = 2648 - 5348$ **False**
(c) $8455 + 0 = 8455$ **True**
(d) $(25 + 36) \times (40 + 16)$
$= (25 \times 40) + (36 \times 16)$ **False**
(e) $1247 \times 243 = 243 \times 1247$ **True**
(f) $999 - 9 = 9999$ **False**

7. **Add the following :**
Ans. (a) $600 + 500 + 400 + 20 + 1 = \mathbf{1521}$
(b) $8727 + 9342 + 321 + 32 + 5$
$= \mathbf{18427}$
(c) $3764 + 3214 + 567 + 45 + 2 = \mathbf{7592}$
(d) $1000 + 100 + 10 = \mathbf{1110}$
(e) $3333 + 2222 + 1111 + 666 + 55 + 4$
$= \mathbf{7391}$
(f) $888 + 88 + 8 + 8 + 8 = \mathbf{1000}$

8. **Subtract the following :**
Ans. (a) $9999 - 1000$ = **8999**
(b) $5432 - 2789$ = **2643**
(c) $6954 - 3247$ = **3707**
(d) $5953 - 3246$ = **2707**
(e) $10,000 - 7000$ = **3000**
(f) $1000 - 800$ = **200**
(g) $5292 - 2459$ = **2833**
(h) $5495 - 2432$ = **3063**
(i) $6370 - 6370$ = **0**
(j) $7560 - 4562$ = **2998**
(k) $8488 - 7488$ = **1000**
(l) $7580 - 7580$ = **0**

9. **Multiply the following :**
Ans. (a) 125×10 = **1250**
(b) 278×20 = **5560**
(c) 320×20 = **6400**
(d) 153×30 = **4590**
(e) 310×20 = **6200**
(f) 241×50 = **12050**
(g) 10×638 = **6380**
(h) 785×10 = **7850**
(i) 86×100 = **8600**
(j) 956×10 = **9560**
(k) 526×10 = **5260**
(l) 278×10 = **2780**

10. **Write the successor and predecessor of the smallest 4-digit number.**

Ans. Smallest 4-digit number = 1000;
Successor = 1000 + 1 = 1001
Precedessor = 1000 – 1 = 999

11. **Fill in the blanks :**
Ans. (a) A cube has **6** faces.
(b) A square has **4** vertices and **4** sides.
(c) A circle has **no** side and **no** vertex.
(d) All the faces of a **cube** are identical.
(e) A triangle has **three** sides and three vertices.

12. **Divide the following :**
Ans. (a) 8375 ÷ 5 = Q = 1675
(b) 4527 ÷ 3 = Q = 1509
(c) 9380 ÷ 7 = Q = 1340
(d) 8546 ÷ 4 = Q = 2136   R = 2
(e) 8464 ÷ 8 = Q = 1058
(f) 9532 ÷ 7 = Q = 1361   R = 5
(g) 3124 ÷ 6 = Q = 520   R = 4
(h) 8437 ÷ 3 = Q = 2812   R = 1
(i) 7684 ÷ 4 = Q = 1921
(j) 2125 ÷ 5 = Q = 425
(k) 8497 ÷ 3 = Q = 2832   R = 1
(l) 4848 ÷ 4 = Q = 1212

13. **Answer the following questions :**
Ans. (a) In which month the Independence Day of India falls?   **August**
(b) Which day comes after Saturday?   **Sunday**
(c) Which month is between August and October?   **September**
(d) What is the last month of a year?   **December**
(e) Which month comes before January?   **December**

14. **Write in short form :**
Ans. (a) 8000 + 900 + 700 + 60 + 3 = **9663**
(b) 3000 + 400 + 800 + 20 + 4 = **4224**
(c) 1000 + 800 + 20 + 7 = **1827**
(d) 9000 + 800 + 70 + 6 = **9876**

15. **The numerator of a fraction is 5 and its denominator is 7. Write the fraction.**
Ans. $\dfrac{5}{7}$

16. **Write the fraction of each shaded part of the following figures :**
Ans. (a) $\dfrac{1}{3}$ (b) $\dfrac{1}{2}$ (c) 1
(d) $\dfrac{2}{3}$ (e) $\dfrac{1}{2}$ (f) $\dfrac{1}{2}$

17. **Find the sum :**
Ans. (a) $\dfrac{18}{10}$ (b) $\dfrac{9}{20}$ (c) $\dfrac{29}{50}$
(d) $\dfrac{12}{19}$ (e) $\dfrac{21}{13}$ (f) $\dfrac{9}{17}$

18. **Find the difference :**
Ans. (a) $\dfrac{1}{5}$ (b) 0   (c) $\dfrac{4}{11}$
(d) $\dfrac{2}{4}$ (e) $\dfrac{7}{87}$ (f) $\dfrac{1}{7}$

19. **Work out and write the answer :**
Ans. (a) $\dfrac{1}{6} \times 18$
$= \dfrac{1 \times \cancel{18}^{3}}{\cancel{6}}$
$= 3$

(b) $\dfrac{8}{5} \times 40$
$= \dfrac{8 \times \cancel{40}^{8}}{\cancel{5}}$
$= 64$

(c) $\dfrac{1}{4} \times 28$
$= \dfrac{1 \times \cancel{28}^{7}}{\cancel{4}}$
$= 7$

(d) $\dfrac{6}{3} \times 15$
$= \dfrac{6 \times \cancel{15}^{5}}{\cancel{3}}$
$= 30$

(e) $\dfrac{1}{9} \times 81$
$= \dfrac{1 \times \cancel{81}^{9}}{\cancel{9}}$
$= 9$

(f) $\dfrac{6}{3} \times 9$
$= \dfrac{9 \times \cancel{9}^{1}}{\cancel{9}}$
$= 9$

20. **Write the fraction for each of the following fractional numbers :**
Ans. (a) $\dfrac{3}{8}$ (b) $\dfrac{2}{9}$ (c) $\dfrac{2}{7}$ (d) $\dfrac{5}{8}$
(e) $\dfrac{3}{15}$ (f) $\dfrac{3}{19}$ (g) $\dfrac{6}{19}$ (h) $\dfrac{7}{15}$

21. **Write in words :**
Ans. (a) Eight-fifths
(b) Two-thirteenths
(c) Half
(d) Eight-twenty ones
(e) Three-fourths
(f) Six-elevenths
(g) Four-sevenths
(h) Thirteen-eighteenths

22. **Measure the following line segments :**
Ans. (a) 4.4 cm   (b) 4.8 cm   (c) 5.0 cm
(d) 4.8 cm   (e) 5.1 cm   (f) 4.95 cm

23. **Write the following in Roman numerals :**
Ans. (a) XVIII   (b) XXVI
(c) XXIV   (d) XXXIX
(e) XII   (f) L
(g) XXVIII   (h) C
(i) XXXI   (j) XX

24. **Write the following in Hindu Arabic numerals :**

Ans. (a) 7　(b) 13　(c) 27　(d) 18
(e) 42　(f) 19　(g) 40　(h) 34

25. **Fill in the blanks by >, < or = :**

Ans. (a) $\dfrac{2}{5}$ **>** $\dfrac{1}{5}$　(b) $\dfrac{1}{2}$ **=** $\dfrac{2}{4}$

(c) $\dfrac{1}{3}$ **<** $\dfrac{2}{3}$　(d) $\dfrac{3}{5}$ **>** $\dfrac{3}{7}$

(e) $\dfrac{5}{7}$ **>** $\dfrac{2}{7}$　(f) $\dfrac{4}{9}$ **<** $\dfrac{4}{7}$

26. **Draw a line segment 8.7 cm long.**

Ans. $\overline{\text{A} \quad 8.7\text{ cm} \quad \text{B}}$

27. **Write $81 \div 9 = 9$ in long form.**

Ans.
81 → 72 → 63 → 54
−9 　−9 　−9 　−9
72 　63 　54 　45
Ist 　2nd 　3rd 　4th

45 → 36 → 27 → 18
−9 　−9 　−9 　−9
36 　27 　18 　9
5th 　6th 　7th 　8th

∴　$81 \div 9 = 9$

28. **Count the number of horizontal lines, vertical lines and slanting lines in the given figure.**

Ans. Horizontal lines = 2;
Vertical lines = 2;
Slanting lines = 6

29. **Measure the lengths of the sides of the following plane figures :**

Ans. (a)　AB = 3.9 cm BC = 3.9 cm
AD = 3.9 cm DC = 3.9 cm
(b)　AB = 2.4 cm BC = 4.1 cm
AD = 4.1 cm DC = 2.4 cm
(c)　AB = 3.4 cm BC = 3 cm AC = 3.4

30. **Perform the following addition in your exercise notebook :**
1476, 1346, 2170 and 71

Ans.

```
  1 4 7 6
  1 3 4 6
  2 1 7 0
  +   7 1
  5 0 6 3
```

31. **In an assembly election four candidates got 1754, 1894, 2006 and 1087 votes respectively. How many votes were polled?**

Ans. Votes polled in favour of the four candidates
= 1754, 1894, 2006 and 1087

Total votes polled
= 1754 + 1894 + 2006 + 1087 = **6741**

32. **The population of a village is 9987, of which the number of women is 3874 and number of children is 1239. Find the number of men?**

Ans. Total population = 9987
Number of women = 3874
Number of children = 1239
Number of men = 9987 − 3874 + 1239
= 9987 − 5113 = **4874**

33. **A child weighed 8 kg 300 g at one time. After 1 year his weight was 9 kg 230 g. How much weight did he gain by the year?**

Ans. Weight of child before one year
= 8 kg 300 g
Present weight = 9 kg 230 g
Increase in weight
= 9 kg 230 g − 8 kg 300 g = 930 g

34. **Answer the following questions :**

Ans. (a)　How many 10-rupees notes make 80 rupees?　**8 notes**
(b)　How many 100 rupees notes make 1500 rupees?　**15 notes**
(c)　How many 50-rupees notes makes 1000 rupees?　**20 notes**

35. **A car consumes 18 litres of petrol in convering a distance of 718 kilometres. How much distance will it cover in 14 litres of petrol.**

Ans. Distance covered in 18 litres of petrol
= 718 kilometres
Distance covered in 1 litre of petrol
= $\dfrac{718}{18}$ kilometres
Distance covered in 14 litres of petrol
= $\dfrac{718}{18_9} \times 14^7 = \dfrac{5026}{9}$
= 558.44 kilometres

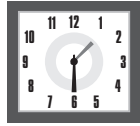**36.** **If 9 shirts cost ₹ 810, what will be the cost of 27 shirts?**

Ans. Cost of 9 shirts = ₹ 810
Cost of 1 shirt = $\dfrac{810}{9}$
Cost of 27 shirts = $\dfrac{810 \times 27^3}{9} = ₹ 2430$
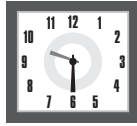
37. **Fill in the blanks :**

Ans. (a)　24 month = **2** years
(b)　120 minutes = **2** hours
(c)　1 leap year = **366** days
(d)　3 weeks = **21** days

38. Read the following clocks and write the time in each case :

Ans.

Time is **1.30**   Time is **9.30**

39. Write the correct number for the following :

Ans.
(a) The largest 2-digit number   **99**
(b) The smallest 2-digit number   **10**
(e) The largest 3-digit number   **999**
(g) The smallest 3-digit number   **100**

40. Write the following numbers in ascending order :

Ans.
(a)	4	95	545	8787
(b)	6	83	632	9871
(c)	4	29	697	8767
(d)	13	95	876	2432
(e)	8	20	108	1007

41. Write the following numbers in descending order :

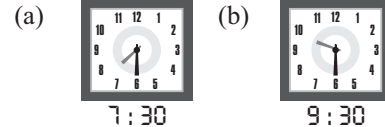**Ans.**
| (a) | 3675 | 2887 | 311 | 87 |
| (b) | 6066 | 666 | 66 | 6 |

(c) 8347   2111   659   12
(d) 4400   400   40   4
(e) 4104   3908   99   75

42. Write the following numbers in short form :

Ans.
(a) $600 + 800 + 70 + 9 = $ **1479**
(b) $300 + 800 + 30 + 4 = $ **1134**
(c) $4000 + 700 + 30 + 3 = $ **4733**
(d) $6000 + 900 + 40 + 7 = $ **6947**

43. Draw the hands of clocks :

(a)   (b)

7 : 30   9 : 30

(c)   (d)

4 : 30   5 : 30

44. Read the pictograph and answer the following questions :
(a) $6 \times 2 = $ **12**
(b) $4 \times 2 = $ **8**
(c) Climbers
(d) $22 \times 2 = $ **44**

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2   # Numbers and Numeration

Exercise-1

1. For the numbers given below, write the place value of each digit :

(a) 5   6   4   3   2

(b) 2   3   5   0   4   1
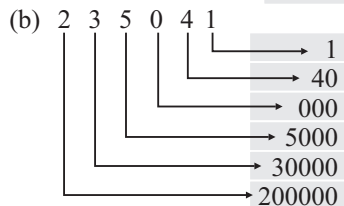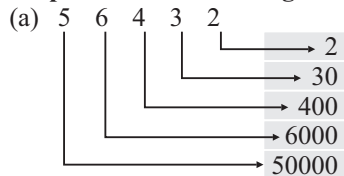
2. Fill in the blanks with correct numerals :

Ans.
(a) $14289 = $ **1** ten-thousands **4** thousands 2 hundreds **8** tens **9** ones
(b) $35706 = $ **3** ten-thousands **5** thousands **7** hundreds **0** tens **6** ones.

(c) $178542 = $ **1** lakhs 7 ten-thousands **8** thousands **5** hundreds **4** tens **2** ones.
(d) $53415 = $ **5** $\times 10000 + $ **3** $\times 1000 + $ **4** $\times 100 + 1 \times 10 + $ **5** $\times 1$
(e) $59068 = 50000 + $ **9000** $+ $ **0** $+ $ **60** $+8$
(f) $(4 \times 10000) + (8 \times 1000) + (6 \times 100) + (0 \times 10) + (5 \times 1) = $ **48601**

3. Write in expanded form :

Ans.
(a) $165321 = 100000 + 60000 + 5000 + 300 + 20 + 1$
(b) $350506 = 300000 + 50000 + 0 + 500 + 0 + 6$
(c) $45892 = 40000 + 5000 + 800 + 90 + 2$

4. Write the short form of the following numbers :

Ans.
(a) $20000 + 5000 + 200 + 10 + 1 = $ **25211**
(b) $100000 + 60000 + 4000 + 0 + 30 + 2 = $ **164032**
(c) $50000 + 4000 + 500 + 20 + 5 = $ **54525**

(d) $50000+6000+0+0+3=\mathbf{56003}$
(e) $600000+20000+300=\mathbf{620300}$

5. **Write the place-value of the underlined digits :**

Ans. (a) 400   (b) 5000   (c) 8 tens

(d) 6 ones (e) 30000 (f) 200000

6. **Write the two place values of 5's in 65425 and find their difference.**

Ans. Place value of 5's = 5000; 5 ones
Difference $=5000-5=4995$

7. **Answer the following question :**

Ans. (a) ∵ $[100000 \div 100 = \mathbf{1000}]$
So, 1000 hundreds make a lakh.
(b) ∵ $[1000 \div 10 = \mathbf{100}]$
So, 100 tens make a thousand.
(c) $100000 - 1 = \mathbf{99999}$
(d) Five hundred twenty five thousand, seven hundred and ten.

8. **Write the following numbers in words :**

Ans. (a) Sixteen thousand five hundred and nine
(b) Twenty-five thousand, seven hundred and ten
(c) Two lakh, eighty thousand, seven hundred and two
(d) Thirty-four lakh, thirty-five thousand, three hundred and fifty-six
(e) Five lakh, sixty-three thousand, two hundred and eighteen
(f) Eighty-seven lakh, eighty-five thousand, eight hundred and eighty-eight

9. **Write the following numbers in figures :**

Ans. (a) 92972   (b) 808080
(c) 20000000   (d) 1531400
(e) 13070005

10. **Write the numerals for the following numbers :**

Ans. (a) 516000   (b) 45501
(c) 60410302   (d) 1501612

11. **Write all the numbers between :**

Ans. (a) 65778; 65779; 65880; 65881; 65882; 65883
(b) 727121; 727122; 727123; 727124; 727125; 727126
(c) 19398; 19399; 19400; 19401; 19402
(d) 555556; 555557; 555558; 555559; 555560; 555561

12. **Look at the pattern carefully. Write the next numbers in the blanks :**

Ans. (a) 40569, 40570, 40571, 40572
(b) 32700, 32800, 32900, 33000
(c) 38256, 39256, 40256, 41256
(d) 98878, 99878, 100878, 101878

13. **Write the number 3,06,005 in words. Read the number obtained by reversing the order of the digits in 3,06,005.**

Ans. Three lakh six thousand and five; five lakh six hundred and three.

14. **Counting by four express numbers from :**

Ans. (a) 24415, 24419, 24423, 24427, 24431, 24435
(b) 253509, 253513, 253517, 253521, 253525, 253529

15. **Rewrite the following numbers by interchanging the digits at the thousand and ones places :**

Ans. (a) 26325
(b) 42504
(c) 50203

Exercise-2

1. **Fill in the blanks with (symbol > or < or =) :**

Ans. (a) 1002 $>$ 979
(b) 12345 $>$ 11999
(c) 212066 $>$ 59899
(d) 4230 $<$ 4503
(e) 94850 $=$ 94850
(f) 3295 $<$ 3512
(g) 96326 $<$ 96905
(h) 100005 $<$ 100050

2. **Write the successor of each of the following numbers :**

Ans. (a) 9000   (b) 12525
    $=9000+1$ $=12525+1$
    $=9001$ $=12526$
(c) 89929   (d) 27999
    $=89929+1$ $=27999+1$
    $=89930$ $=28000$
(e) 348758   (f) 29080
    $=348758+1$ $=29080+1$

= 348759   = 29081

3. Fill in the blanks :

Ans. (a) The number which comes just before 53579 is **53578**.

(b) The number which comes just after 955421 is **955422**.

(c) The number which comes just before 49999 is **49998**.

(d) The number which comes just after 556839 is **556840** .

4. Write the following numbers in ascending order :

Ans. (a) 989, 999, 1295, 4512, 93623, 95215

(b) 9, 80, 888, 7787, 55555, 80000

(c) 523, 4001, 4023, 24023, 41231, 43210

(d) 8137, 70078, 70782, 324900, 329400

(e) 90009, 90099, 99000, 99579, 99909

(f) 605, 7381, 28707, 216528, 429003

5. Write the following numbers in descending order :

Ans. (a) 8371, 5378, 5021, 3871, 3817, 1378

(b) 28300, 14753, 13576, 12573, 4213, 4201

(c) 29921, 29815, 29127, 11200, 11110, 686

(d) 54492, 54480, 54444, 54431, 54406, 5404

(e) 383581, 149320, 148752, 37610, 37601

(f) 462354, 453324, 452314, 434231, 433214

6. (a) Greatest 5 digit number = 9999, successor = 99999 + 1 = 100000

(b) Smallest 5 digit number 10000, predecessor = 10000 – 1 = 9999

(c) 397, 379, 739, 793, 973, 937

(d) 258, 285, 528, 582, 852, 825

7. Make the greatest and smallest numbers possible using the following digits :

Ans. (a) Greatest number = 9210; Smallest number = 1029

(b) Greatest number = 86410; Smallest number = 10468

(c) Greatest number = 74321;

Smallest number = 12347

(d) Greatest number = 543210; Smallest number = 102345

(e) Greatest number = 8765; Smallest number = 5678

(f) Greatest number = 544310; Smallest number = 103445

8. In which period is the encircled digit?

Ans. (a) Period = Hundreds

(b) Period = Hundreds

(c) Period = Ones

(d) Period = Lakhs

(e) Period = Ten thousands

9. Write the predecessor of each of the following numbers :

Ans. (a) Predecessor of 3992
3999 – 1 = 3998

(b) Predecessor of 11024
11025 – 1 = 11024

(c) Predecessor of 47321
47321 – 1 = 47320

(d) Predecessor of 27352
27352 – 1 = 27351

(e) Predecessor of 221489
221489 – 1 = 221488

(f) Predecessor of 10000
10000 – 1 = 9999

Worksheet

Given below are the heights of 6 the world's tallest mountains in metres. Write the heights in words and also put the heights in descending order :

Ans. 1. **8516** m $\Rightarrow$ Eight thousand five hundred sixteen metres

2. **8848** m $\Rightarrow$ Eight thousand eight hundred forty eight metres

3. **8586** m $\Rightarrow$ Eight thousand five hundred eighty-six metre

4. **8201** m $\Rightarrow$ Eight thousand two hundred one metre

5. **8462** m $\Rightarrow$ Eight thousand four hundred sixty two metre

6. **8611** m $\Rightarrow$ Eight thousand six hundred eleven metre

Heights of mountains in descending order $\Rightarrow$ 8848 m, 8611 m, 8586 m, 8516 m, 8462 m, 8201 m

Answer the following :

Exercise-3

1. **Write the following in Roman numerals :**

Ans. (a) XV   (b) XXXVIII

(c) XLIII   (d) XXXIX

(e) XXXV   (f) XL

(g) XLVIII   (h) XXIX

(i) XLIX   (j) XXXI

2. **Write the following in Hindi-Arabic numerals :**

Ans. (a) 30   (b) 25

(c) 29   (d) 43

(e) 48   (f) 42

(g) 44   (h) 140

(i) 34   (j) 200

3. **Fill in the blanks with (> or < or =) :**

Ans. (a) XX   **>**   XIX

(b) XXV   **<**   XLIII

(c) XLIX   **>**   XLI

(d) XXXI   **>**   XXX

(e) XLIV   **=**   XLIV

(f) XLV   **<**   XLIX

4. **Write the answers in Roman numerals :**

Ans. (a) $\text{XLI} + \text{IX}$ (b) $\text{XL} + \text{XII}$

     $= 41 + 9$ $= 40 + 12$

     $= 50$ $= 52$

    $\Rightarrow$ L $\Rightarrow$ LII

(c) $\text{XXXIV} - \text{XIII}$ (d) $\text{LXV} - \text{XXIV}$

     $= 34 - 13$ $= 45 - 24$

     $= 21$ $= 21$

    $\Rightarrow$ XXI $\Rightarrow$ XLI

(e) $\text{XLIV} \div \text{XI}$ (f) $\text{L} - \text{XL}$

     $= 44 \div 11$ $= 50 - 40$

     $= 4$ $= 10$

    $\Rightarrow$ IV $\Rightarrow$ X

5. **Fill in the blanks with (> or < or =) :**

Ans. (a) 42   **>**   XXV

(b) 50   **=**   L

(c) $24 + 4$ **<**   XXXII

(d) XLV   **<**   49

(e) XLVII   **>** $36 + 3$

(f) $\text{XIX} + \text{XXX}$ **>** $30 + 18$

6. **Arrange the following Roman numerals in descending order :**

Ans. (a) XLVII > XLIII > XXIII > XXII > XVIII

(b) XLV > XXIX > XXVI > XV > XIII

(c) XX > XVII > XVI > XV > XIII

(d) XLIX > XLV > XLII > XLI > XXX

(e) X > VIII > V > IV > III

(f) XLVIII > XLVII > XLIV > XXXIII > III

(g) XLII > XXXVI > XXXV > XXXIV > XXIV

(h) XXV > XXI > XX > XIX > XIII

7. **Arrange the Following Roman numerals in ascending order :**

Ans. (a) XXIV < XXXIV < XLI < L < LV

(b) VIII < XXVIII < XXXIX < XLV < XLVI

(c) XIII < XV < XVI < XVII < XX

(d) XL < XLI < XLII < XLV < XLVI

(e) XXI < XXXI < XLII < XLV

(f) XXIII < XXXII < XLII < XLVI < XLIX

(g) III < IV < V < VIII < X

(h) XIX < XX < XXI < XXII < XXV

8. **Write 'T' for true and 'F' for false for each of the following statements :**

Ans. (a) $\text{XIV} = 10 + 6 = 16$ **F**

(b) $\text{XXXV} = 10 + 10 + 10 + 5 = 35$ **T**

(c) $\text{XXVIII} = 10 + 10 + 5 = 25$ **F**

(d) $\text{XXIV} = 10 + 10 + 6 = 26$ **F**

(e) $\text{XXXVI} + 10 + 10 + 10 + 6 = 36$ **T**

(f) $\text{XXXIX} = 10 + 10 + 10 + 9 = 39$ **T**

9. **One correct Roman Numeral is given in each of the following pairs. Write the correct numerals :**

Ans. (a) XXXXIV, XLIV $\longrightarrow$ XLIV

(b) XXIXIII, XXXIV $\longrightarrow$ XXXIV

(c) XIXX, XL $\longrightarrow$ XL

(d) XXX, XIXI $\longrightarrow$ XXX

Worksheet

Join the dots in the correct order to complete the picture :

Ans. Do it yourself.

Exercise-4

1.   **Add the following :**

Ans.

a.

T-Th	Th	H	T	O
5	3	4	2	1
+2	1	5	4	3
7	4	9	6	4

b.

T-Th	Th	H	T	O
5	4	6	2	8
+3	4	3	6	0
8	8	9	8	8

c.

L	T-Th	Th	H	T	O
2	6	5	7	4	3
+4	3	2	1	2	6
6	9	7	8	6	9

d.

L	T-Th	Th	H	T	O
2	2	3	0	4	5
+3	1	1	6	2	1
5	3	4	6	6	6

e.

L	T-Th	Th	H	T	O
8	8	6	0	0	3
1	1	7	2	1	
	1	0	4	4	
		+1	2	1	
8	9	8	8	8	9

f.

L	T-Th	Th	H	T	O
2	3	4	7	2	3
4	5	0	3	1	
	2	1	1	2	
		+1	2	2	
2	8	1	9	8	8

2.   **Find the sum :**

Ans.

a.

3	7	9	2	6	3
+5	2	0	6	3	4
8	9	9	8	9	7

b.

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

c.

9	5	4	6	0	3
	2	2	1	7	0
			+2	2	4
9	7	6	9	9	7

d.

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

e.

4	6	3	0	4	2
3	1	0	2	0	5
		+2	1	1	
7	7	3	4	5	8

f.

2	0	2	4	3	1
3	1	4	0	0	2
	+4	2	3	5	3
5	5	8	7	8	6

3.   **Solve the following :**

Ans.

a. $10532 + 36241 + 42126$
    $= 88899$

1	0	5	3	2
3	6	2	4	1
+4	2	1	2	6
8	8	8	9	9

b. $20532 + 215021 + 341213$
    $= 576766$

	2	0	5	3	2
	2	1	5	0	2	1
+3	4	1	2	1	3
5	7	6	7	6	6

c. $42041 + 30407 + 1231$
    $= 73679$

4	2	0	4	1
3	0	4	0	7
+1	2	3	1	
7	3	6	7	9

d. $41213 + 30213 + 1234$
    $= 72660$

4	1	2	1	3
3	0	2	1	3
+1	2	3	4	
7	2	6	6	0

e. $303543 + 62104 + 3221 + 121 + 10$
    $= 368999$

3	0	3	5	4	3
	6	2	1	0	4
		3	2	2	1
			1	2	1
			+1		0
3	6	8	9	9	9

f. $31342 + 12105 + 342$
    $= 43789$

3	1	3	4	2
1	2	1	0	5
	+3	4	2	
4	3	7	8	9

g. $123042 + 31235 + 3301 + 211$
$= 157789$

1	2	3	0	4	2
	3	1	2	3	5
		3	3	0	1
		+2	1	1
1	5	7	7	8	9

h. $135043 + 32354 + 212$
$= 167609$

1	3	5	0	4	3
	3	2	3	5	4
		+2	1	2
1	6	7	6	0	9

i. $12305 + 40461 + 4122$
$= 56888$

1	2	3	0	5
4	0	4	6	1
	+4	1	2	2
5	6	8	8	8

j. $12306 + 50211 + 3211$
$= 65728$

1	2	3	0	6
5	0	2	1	1
	+3	2	1	1
6	5	7	2	8

k. $23041 + 42814 + 1024$
$= 66879$

2	3	0	4	1
4	2	8	1	4
	+1	0	2	4
6	6	8	7	9

l. $24045 + 31812 + 1000$
$= 56857$

2	4	0	4	5
3	1	8	1	2
	+1	0	0	0
5	6	8	5	7

m. $6307 + 21402 + 111000 + 260$
$= 138969$

1	1	1	0	0	0
		6	3	0	7
	2	1	4	0	2
			+2	6	0
1	3	8	9	6	9

n. $6408 + 11150 + 10000$
$= 27558$

	6	4	0	8
1	1	1	5	0
+1	0	0	0	0
2	7	5	5	8

o. $236381 + 30516 + 2102$ and 1000
$= 269999$

2	3	6	3	8	1
	3	0	5	1	6
		2	1	0	2
	+1	0	0	0
2	6	9	9	9	9

p. $23061 + 1016 + 2103$
$= 26180$

2	3	0	6	1
	1	0	1	6
	+2	1	0	3
2	6	1	8	0

q. $123574, 63312$ and 2003
$= 188889$

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

r. $56230 + 21114 + 31112$
$= 108456$

5	6	2	3	0
2	1	1	1	4
+3	1	1	1	2
1	0	8	4	5	6

s. $12021, 21403, 13244$ and 1210
$= 47878$

1	2	0	2	1
2	1	4	0	3
1	3	2	4	4
+1	2	1	0
4	7	8	7	8

t. $13012 + 13215 + 12121$
$= 38348$

1	3	0	1	2
1	3	2	1	5
+1	2	1	2	1
3	8	3	4	8

u. $21613, 42024$ and 14040
$= 77677$

2	1	6	1	3
4	2	0	2	4
+1	4	0	4	0
7	7	6	7	7

v. $21304 + 21521 + 1234$
  $= 44059$

```
  2 1 3 0 4
  2 1 5 2 1
 +1 2 3 4
  4 4 0 5 9
```

Exercise-5

1.   Add the following:

Ans.

a
```
  3 0 2 2 4
 +1 4 5 3 6
  4 4 7 6 0
```

b
```
  4 3 7 8 8
 +2 5 3 2 4
  6 9 1 1 2
```

c
```
  6 2 8 5 7
 +2 3 5 2 3
  8 6 3 8 0
```

d
```
  4 5 6 5 6
 +3 0 0 2 5
  7 5 6 8 1
```

e
```
  9 8 8 5 8
  + 1 2 3 4
  1 0 0 9 2
```

f
```
  6 2 3 5 4
 +2 3 5 2 3
  8 5 8 7 7
```

2.   Add the following:

Ans.

a
```
  5 3 5 2 5 3
 +4 3 2 3 4 4
  9 6 7 5 9 7
```

b
```
  7 5 8 2 5 8
 +2 3 5 3 0 2
  9 9 3 5 6 0
```

c
```
  4 5 3 9 2 5
 +3 2 5 3 2 8
  7 7 9 2 5 3
```

3.   Add the following:

Ans.

a
```
  1 3 0 2 8 5
    1 3 2 0
    + 4 2 6
  1 3 2 0 3 1
```

b
```
  3 5 7 7 3
  4 2 2 4 5
 +2 1 0 1 4
  9 9 0 3 2
```

c
```
1 4 2 2 6 6
  3 2 3 2 3
 +2 3 0 5 4
1 9 7 6 4 3
```

d
```
2 0 2 6 8 2
1 3 2 1 0 2
    3 0 2 8
    + 3 0 2
3 3 8 1 1 4
```

e
```
          8
        7 1
      4 1 0
  + 8 5 1 0 3
    8 5 5 9 2
```

f
```
        2 6 7
      4 2 2 0 1
    1 2 0 1 4 6
      + 2 0 5
    1 6 2 8 1 9
```

4.   Arrange in columns and add together :

Ans.   (a)   23402, 11101 and 32203

```
  2 3 4 0 2
  1 1 1 0 1
 +3 2 2 0 3
  6 6 7 0 6
```

(b)   12405, 4122 and 30321

```
  1 2 4 0 5
    4 1 2 2
 +3 0 3 2 1
  4 6 8 4 8
```

(c)   216000, 32225 and 3210

```
2 1 6 0 0 0
  3 2 2 2 5
   +3 2 1 0
2 5 1 4 3 5
```

(d)   132402, 432321, 2312 and 222

```
1 3 2 4 0 2
4 3 2 3 2 1
    2 3 1 2
    + 2 2 2
5 6 7 2 5 7
```

(e) 40, 503, 4001 and 40102

```
        4   0
      5   0   3
    4   0   0   1
+4  0   1   0   2
  4   4   6   4   6
```

5. **Add :**

Ans. (a) 65387 + 35432
= 100819

```
      6   5   3   8   7
  +3  5   4   3   4
  1   0   0   8   1   9
```

(b) 84923 + 97089
= 182012

```
      8   4   9   2   3
  +9  7   0   8   9
  1   8   2   0   1   2
```

(c) 653275 + 257785
= 911060

```
  6   5   3   2   7   5
+2  5   7   7   8   5
  9   1   1   0   6   0
```

(d) 75251 + 4969
= 80220

```
      7   5   2   5   1
      +4  9   6   9
      8   0   2   2   0
```

(e) 9885 + 82556
= 92441

```
          9   8   8   5
      +8  2   5   5   6
      9   2   4   4   1
```

(f) 253346 + 614789
= 868135

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

(g) 28735 + 56545 + 3222
= 88502

```
      2   8   7   3   5
      5   6   5   4   5
      +3  2   2   2
      8   8   5   0   2
```

(h) 428735 + 56545 + 43225
= 628505

```
  4   2   8   7   3   5
      5   6   5   4   5
  +4  3   2   2   5
  6   2   8   5   0   5
```

(i) 372079 + 483797 + 30345
= 886221

```
  3   7   2   0   7   9
  4   8   3   7   9   7
  +3  0   3   4   5
  8   8   6   2   2   1
```

(j) 15064 + 18720 + 435 + 203
= 34422

```
  1   5   0   6   4
  1   8   7   2   0
      4   3   5
  +2  0   3
  3   4   4   2   2
```

(k) 23465 + 10962 + 5839 + 23
= 40289

```
  2   3   4   6   5
  1   0   9   6   2
      5   8   3   9
      +2  3
  4   0   2   8   9
```

(l) 529921 + 13887 + 5405 + 95
= 549308

```
  5   2   9   9   2   1
      1   3   8   8   7
          5   4   0   5
          +9  5
  5   4   9   3   0   8
```

6. **Write in columns and find the sum :**

Ans. (a) 10962 + 23465 + 58392

```
  1   0   9   6   2
  2   3   4   6   5
+5  8   3   9   2
  9   2   8   1   9
```

(b) 73219 + 3471 + 12603 + 23

```
  7   3   2   1   9
      3   4   7   1
  1   2   6   0   3
          +2  3
  8   9   3   1   6
```

(c) 523532 + 236064 + 312456

```
  5   2   3   5   3   2
  2   3   6   0   6   4
+3  1   2   4   5   6
1   0   7   2   0   5   2
```

(d) 666666 + 55555 + 4444 + 333

```
  6   6   6   6   6   6
      5   5   5   5   5
          4   4   4   4
          +3  3   3
  7   2   6   9   9   8
```

(e) 2006570 + 437005 + 552041 + 50

```
  2   0   0   6   5   7   0
      4   3   7   0   0   5
      5   5   2   0   4   1
              +5  0
  2   9   9   5   6   6   6
```

7. **Add :**

Ans. (a) $15005 + 4575 + 35024$
$= 54604$

1	5	0	0	5
	4	5	7	5
+3	5	0	2	4
5	4	6	0	4

(b) $800000 + 5011 + 16010 + 300206$
$= 1121227$

8	0	0	0	0	0
		5	0	1	1
	1	6	0	1	0
+3	0	0	2	0	6
1	1	2	1	2	2	7

(c) $35078 + 64004 + 700$
$= 99782$

3	5	0	7	8
6	4	0	0	4
	+7	0	0	
9	9	7	8	2

(d) $200000 + 5001 + 45000 + 500025$
$= 750027$

2	0	0	0	0	0
		5	0	0	1
	4	5	0	0	0
+5	0	0	0	2	5
7	5	0	0	2	7

8. **Add the following :**

Ans. (a)

3	5	4	7	5
+2	3	1	2	7
5	8	6	0	2

(b)

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

(c)

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

9. **Fill in the blanks :**

Ans. (a) $50555 + \mathbf{0} = 50555$

(b) $37732 + 33205 = \mathbf{33205} + 37732$

(c) $0 + 42792 = 42792 + \mathbf{0} = 42792$

(d) $101030 + 201030 = \mathbf{201030} + 101030$

(e) $0 + 532004 = \mathbf{532004}$

(f) $28218 + \mathbf{5550} + 999 = 999 + 5550 + 28218$

(g) $0 + \mathbf{435757} = 435757$

(h) $54296 + \mathbf{15340} + 27635 = 15340 + \mathbf{27635} + 54296$

Exercise-6

1. **A milk dairy sold 28591 litres, 35215 litres, 45575 litres and 56432 litres of milk in four months. How much milk was sold by this dairy in these four months?**

Sol. Milk sold in four months
$= 28591, 35215$ litres
45575 litres and 56432 litres

∴ Total milk sold
$= 28591 + 35215 + 45575 + 56432$ lit.

T-Th	Th	H	T	O
2	8	5	9	1
3	5	2	1	5
4	5	5	7	5
+5	6	4	3	2
1	6	5	8	1	3

$= 165813$ litres

2. **In a flood relief fund, four cities collected ₹ 76543, ₹ 64612, ₹ 43768 and ₹ 14453 respectively. How much money did they collect together?**

Sol. Money collected by four cities
$= ₹ 76543, ₹ 64612, ₹ 43768$ and
$₹ 14453$

∴ Total money collected
$= ₹ 76543 + ₹ 64612 + ₹ 43768$
$+ ₹ 14453$

T-Th	Th	H	T	O
7	6	5	4	3
6	4	6	1	2
4	3	7	6	8
+1	4	4	5	3
1	9	9	3	7	6

$= ₹ 199376$

3. **The difference of two numbers is 52355. If the smaller number is 355982, find the other one. Find the sum also.**

Sol. Difference of two numbers
$= 52355$

L	T-Th	Th	H	T	O
	5	3	2	6	6
+3	5	5	9	8	2
4	0	8	3	3	7

Smaller number = 355982
Other number = 355982 + 52355
= 408337
Sum = 355982 + 408337 = 764319

4. **A computer company produced 16425 computers in January, 22000 computers in February, 2257 computers in March and 18500 computers in April. How many computers did the company produce in these four months?**

Sol. Number of computers produced in January = 16425

Number of computers produced in February = 22000

Number of computers produced in March = 2257

∴ Total number of computers produced
= 16425 + 22000 + 2257 + 18500

T-Th	Th	H	T	O
1	6	4	2	5
2	2	0	0	0
	2	2	5	7
+1	8	5	0	0
5	9	1	8	2

= 59182 computers

5. **At a test cricket match there were 15632 spectators in the first day, 13879 spectators in the second day and 25356 spectators in the third day to watch the match. What was the total numbers of spectators in the three days?**

Sol. Number of spectators in the first day
= 15632

Number of spectators in the second day
= 13879

Number of spectators in the third day
= 25356

∴ Total number of spectators
= 15632 + 13879 + 25356

T-Th	Th	H	T	O
1	5	6	3	2
1	3	8	7	9
+2	5	3	5	6
5	4	8	6	7

= 54867 spectators

6. **The cost of a refrigerator is ₹ 14668. The cost of a washing-machine is ₹4856 more than the cost of refrigerator. Find the total cost of refrigerator and washing machine.**

Sol. The cost of refrigerator = ₹ 14668

∴ The cost of washing machine
= ₹ 14668 + ₹ 14668 + ₹ 4856

T-Th	Th	H	T	O
1	4	6	6	8
1	4	6	6	8
+4	8	5	6	
3	4	1	9	2

= ₹ 34192

7. **A steel factory produced 345658 kg of steel in the year 2007. After that, every year the production of steel increased by 257000 kg. Find the total production of steel in the year 2010.**

Sol. Steel produced in 2007 = 345658 kg
Steel produced in 2008
= 345658 kg + 257000 kg
Steel produced in 2009
= 3456528 kg + 257000 kg
+ 257000 kg

∴ Total steel produced in 2010
= 3456528 kg + 257000 kg
+ 257000 kg + 257000 kg

L	T-Th	Th	H	T	O
	3	4	5	6	5	8
	2	5	7	0	0	0
	2	5	7	0	0	0
+2	5	7	0	0	0
1	1	1	6	6	5	8

= 1116658 kg

8. **A village authorities organised an exhibition on public health. 18245 people saw the exhibition on the first day. After first day 13430, 11634 and 14102 people saw it on the next three days. How many people saw the exhibition on these four days?**

Sol. Number of people on the first day
= 18245
Number of people on the second day
= 13430
Number of people on the third day
= 11634
Number of people on the fourth day
= 14102

∴ Total people
= 18245 + 13430 + 11634 + 14102

T-Th	Th	H	T	O
1	8	2	4	5
1	3	4	3	0
1	1	6	3	4
+1	4	1	0	2
5	7	4	1	1

= 57411 people

9. **The total number of students that appeared in the class XII examination were 88236 in the year 2007, 11756 students in the year 2008 and 12473 students in the year 2009. Find the total number of students that appeared in the examination in three years.**

Sol. Number of students appeared in 2007
= 88236
Number of students appeared in 2008
= 11756
Number of students appeared in 2009
= 12473

∴ Total number of students appeared
= 88236 + 11756 + 12473

T-Th	Th	H	T	O
8	8	2	3	6
1	1	7	5	6
+1	2	4	7	3
1 1	2	4	6	5

= 112465 students

10. **A farmer sold 3525 kg, 1825 kg, 2840 kg and 2575 kg of rice in four years. How much rice was sold in the four years?**

Sol. Rice sold in four years = 3525 kg, 1825 kg, 2840 kg and 2575 kg

∴ Total rice sold = 3525 kg + 1825 kg + 2840 kg + 2575 kg

T-Th	Th	H	T	O
	3	5	2	5
	1	8	2	5
	2	8	4	0
	+2	5	7	5
1	0	7	6	5

= 10765 kg

11. **Mr. Tanu bought a house for ₹ 13466. He also bought a car for ₹ 325758 and furniture for ₹ 25750. Find the total money spent by him.**

Sol. Money spent on house = ₹ 13466
Money spent on car = ₹ 325758
Money spent on furniture = ₹ 25750

∴ Total money spent
= ₹ 13466 + ₹ 325758 + ₹ 25750

L	T-Th	Th	H	T	O
	1	3	4	6	6
3	2	5	7	5	8
+2	5	7	5	0	
3	6	4	9	7	4

= ₹ 364974

12. **15823 copies of books in 2007, 2235 copies of books in 2008 and 25815 copies of books in 2009 were printed by a printing press. How many books were printed in these three years?**

Sol. Copies of books printed in 2007
= 15823
Copies of books printed in 2008
= 2235
Copies of books printed in 2009
= 25815

∴ Total books printed
= 15823 + 2235 + 25815

T-Th	Th	H	T	O
1	5	8	2	3
	2	2	3	5
+2	5	8	1	5
4	3	8	7	3

= 43873 books

13. **There are 45359 bags of sugar and 18095 bags of rice in a godown. Find the total number of bags in the godown.**

Sol. Number of bags of sugar = 45359
Number of bags of rice = 18095

∴ Total bags = 45359 + 18095

T-Th	Th	H	T	O
4	5	3	5	9
+1	8	0	9	5
6	3	4	5	4

= 63454 bags

14. **(a) Add the smallest five digit number and largest five digit number.**

(b) What number is 4563 more than 99999?

(c) Add the greatest four digit number and the smallest five digit number.

Sol. (a) Smallest five digit number
$= 10000$

Largest five digit number $= 99999$

∴ Total $= 10000 + 99999$

T-Th	Th	H	T	O
1	0	0	0	0
+9	9	9	9	9
1 0	9	9	9	9

$= 109999$

(b) One number $= 99999$

∴ Other number $= 99999 + 4563$

T-Th	Th	H	T	O
	9	9	9	9	9
	+4	5	6	3
1	0 4	5	6	2

$= 104562$

(c) Greatest four digit number $= 9999$

Smallest five digit number
$= 10000$

∴ Total $= 9999 + 10000$

T-Th	Th	H	T	O
	9	9	9	9
+1	0	0	0	0
1	9	9	9	9

$= 19999$

15. A house building corporation built 13785 flats in the year 2009 and 21307 flats in the year 2010. How many flats were built in two years?

Sol. Number of flats built in 2009
$= 13785$

Number of flats built in 2010
$= 21$

T-Th	Th	H	T	O
1	3	7	8	5
+2	1	3	0	7
3	5	0	9	2

∴ Total flats build $= 13785 + 21307$
$= 35092$ flats

Worksheet

Add the number of spectators for the first 2 days, next 2 days and last 2 days.

Ans. 1. Monday + Tuesday **4360** people.
2. Wednesday + Thursday **4605** people.
3. Friday + Saturday **6715** people.

Find Out

Ans. 1. How many players are there in a hockey team? **11 Players**
2. How big is the playing field for hockey?
91.40 m × 55 m (100 yd × 60 yd)
3. Who is the captain of the Indian hockey team? **Rajpal Singh**
4. Who is known as the 'Wizard of

5   Subtraction

Exercise-7

1. Subtract the following :

Ans. a

7	7	8	3	5
− 5	3	0	2	1
2	4	8	1	4

b

9	9	9	9	9
− 6	7	8	9	3
3	2	1	0	6

c

5	6	0	7	3	8
− 3	4	0	4	1	7
2	2	0	3	2	1

d

8	7	5	9	6	3
− 4	6	2	7	3	3
4	1	3	2	3	0

e

6	6	3	8	2
− 2	3	1	5	1
4	3	2	3	1

f

8	7	9	8	7	9
− 2	3	5	2	2	5
6	4	4	6	5	4

2. Solve the following :

Ans. a

5	6	4	6	5
− 2	3	5	4	7
3	2	9	1	8

b

7	2	5	3	4
− 3	2	6	1	8
3	9	9	1	6

(c)

```
  5 9 6 8 7
- 4 6 8 5 9
  1 2 8 2 8
```

(d)

```
  8 5 4 6 5 8
- 4 3 2 7 2 9
  4 2 1 9 2 9
```

(e)

```
  7 5 3 4 3 4
- 3 2 1 7 2 6
  4 3 1 7 0 8
```

(f)

```
  9 6 5 4 6 5
- 7 3 2 6 2 8
  2 3 2 8 3 7
```

3. Write in column and subtract :

Ans. (a) 14231 from 47985

```
  4 7 9 8 5
- 1 4 2 3 1
  3 3 7 5 4
```

(b) 50505 from 99568

```
  9 9 5 6 8
- 5 0 5 0 5
  4 9 0 6 3
```

(c) 334756 from 556897

```
  5 5 6 8 9 7
- 3 3 4 7 5 6
  2 2 2 1 4 1
```

(d) 243568 from 476899

```
  4 7 6 8 9 9
- 2 4 3 5 6 8
  2 3 3 3 3 1
```

(e) 82437 from 98958

```
  9 8 9 5 8
- 8 2 4 3 7
  1 6 5 2 1
```

4. Find the difference when :

Ans. (a)

```
  4 5 5 6 6
- 2 1 1 3 6
  2 4 4 3 0
```

So, difference = 24430

(b)

```
  6 8 5 6 3
- 6 3 0 2 1
    5 5 4 2
```

So, difference = 5542

(c)

```
  6 5 8 4 2 5
- 3 4 4 3 1 3
  3 1 4 1 1 2
```

So, difference = 314112

5. Fill in the blanks :

Ans. (a)

```
  6 5 4 7 8
- ⑤ ③ ① ③ ②
  1 2 3 4 6
```

(b)

```
  8 7 5 6 3 4
- 3 5 3 ② ③ ①
  ⑤ ② ② 4 0 3
```

(c)

```
  8 3 4 5 7
- ③ ② ② ③ ②
  5 ① 2 ② 5
```

(d)

```
  4 5 4 4 3 3
- 2 3 1 ① ① ③
  ② ② ③ 3 2 0
```

6. Subtract the following :

Ans. (a)

```
  9 7 5 4 6
- 3 5 9 8 8
  6 1 5 5 8
```

(b)

```
  5 5 3 8 7
- 4 9 6 6 8
    5 7 1 9
```

(c)

```
  8 7 5 3 5 0
- 6 6 8 7 4 9
  2 0 6 6 0 1
```

7. Solve the following :

Ans. (a) 90000 − 33333 = 86667

```
  9 0 0 0 0
- 3 3 3 3 3
  5 6 6 6 7
```

(b) 43223 − 17958 = 25265

```
  4 3 2 2 3
- 1 7 9 5 8
  2 5 2 6 5
```

(c) 80051 − 45376 = 34675

```
  8 0 0 5 1
- 4 5 3 7 6
  3 4 6 7 5
```

(d) $164305 - 67857 = 96448$

```
  1 6 4 3 0 5
 −6 7 8 5 7
    9 6 4 4 8
```

(e) $605032 - 89859 = 515173$

```
  6 0 5 0 3 2
 −8 9 8 5 9
  5 1 5 1 7 3
```

(f) $576035 - 298562 = 277473$

```
  5 7 6 0 3 5
 −2 9 8 5 6 2
  2 7 7 4 7 3
```

8.   Write in column and subtract :

Ans. (a) $47985 - 19298$

```
  4 7 9 8 5
 −1 9 2 9 8
  2 8 6 8 7
```

(b) $200000 - 13254$

```
  2 0 0 0 0 0
   −1 3 2 5 4
  1 8 6 7 4 6
```

(c) $236565 - 799$

```
  2 3 6 5 6 5
       −7 9 9
  2 3 5 7 6 6
```

(d) $87655 - 39978$

```
  8 7 6 5 5
 −3 9 9 7 8
  4 7 6 7 7
```

(e) $764321 - 68768$

```
  7 6 4 3 2 1
   −6 8 7 6 8
  6 9 5 5 5 3
```

(f) $998533 - 889755$

```
  9 9 8 5 3 3
 −8 8 9 7 5 5
  1 0 8 7 7 8
```

9.   Find the difference between the smallest 5- digit number and largest 4- digit number.

Ans. Smallest 5-digit number = 10000
Largest 4- digit number = 9999
Difference = 10000 − 9000 = 1   **Ans.**

10.   What number is 1526 less than 36017?

Ans. Original number = 36017

```
  3 6 0 1 7
 −1 5 2 6
  3 4 4 9 1
```

New number = 36017– 1526
= 34491   **Ans**

11.   If the minuend is 597856 and subtrahend is 199873 then find the difference.

Ans. Minuend = 597856,
Subtrahend = 199873
Difference = 597856 – 1999873

```
  5 9 7 8 5 6
 −1 9 9 8 7 3
  3 9 7 9 8 3
```

= 397983   **Ans**

12.   Subtract four lakh, five thousand eight hundred and eight from seven lakh, three thousand and five.

Ans. Minuend = 703005
and subtrahend = 405808
Difference = 703005 – 405808

```
  7 0 3 0 0 5
 −4 0 5 8 0 8
  2 9 7 1 9 7
```

= 297197   **Ans**

13.   Fill in the blanks:

Ans. (a) $86325 - \textbf{23813} = 62512$
(b) $75328 - \textbf{42}818 = 325\,\textbf{10}$
(c) $200578 - \textbf{110122} = 90456$
(d) $\textbf{4381} + 892 = 5273$
(e) $52147 + \textbf{47853} = 100000$
(f) $33333 - \textbf{27333} = 6000$
(g) $\textbf{13579} - 1234 = 12345$
(h) $954375 - \textbf{158}648 = \textbf{79}5727$
(i) $\textbf{30,001} + 9999 = 40000$

Exercise-8

Solve the following word problems:

1.   Two pieces of wire 2354 metre and 2236 metre long were cut from a wire 63255 metre long. Find the length of the remaining wire.

Sol. Total length of the wire = 63255 m
Length of the pieces cut = 2354 and 2236

∴ Remaining length
= 63255 – 2354 – 2236
= 63255 – 2354 + 2236

2	3	5	4
+2	2	3	6
4	5	9	0

6	3	2	5	5
	–4	5	9	0
5	8	6	6	5

= 63255 – 4590 = 58665 metre**Ans**

2. **An oil mill produces 90000 litres of oil in a month. It supplied 45444 litres of oil to one godown and 25555 litres to another godown. How much oil was left with the oil mill?**

Sol. Total production of oil = 90000 litres
Oil supplied to one godown
= 45444 litres
Oil supplied to another godown
= 25555 litres

∴ Oil remained = 90000 – 25555
= 90000 – 70999

4	5	4	4	4
+2	5	5	5	5
7	0	9	9	9

9	0	0	0	0
–7	0	9	9	9
1	9	0	0	1

= 19001

∴ Oil left with the oil mill = 19001 litres

3. **In one year a farm produced 210356 kg of apple. In the second year it produced 325285 kg. If 85945 kg were damaged, how much did they sell?**

Sol. Apple produced during first year
= 210356 kg
Apple produced during second year
= 325285 kg
Quantity of apple damaged
= 85945 kg

∴ Apple sold
= 210356 + 325285 – 85945 kg
= 535641 – 85945 kg

2	1	0	3	5	6
+3	2	5	2	8	5
5	3	5	6	4	1

5	3	5	6	4	1
	–8	5	9	4	5
4	4	9	6	9	6

= 449696 kg

∴ Apple sold after the second year
= 449696 kg **Ans**

4. **What must be added to the difference of 18375 and 10850 to make it equal to their sum?**

Sol. Difference of 18375 – 10850 = 7525
Sum of 18375 + 10850 = 29225

1	8	3	7	5
–1	0	8	5	0
	7	5	2	5

1	8	3	7	5
+1	0	8	5	0
2	9	2	2	5

Number to be aded to make them equal
= 29225 – 7525
= 21700

2	9	2	2	5
	–7	5	2	5
2	1	7	0	0

Ans

5. **Mrs. Jain earns ₹ 54555 in a years. Mr. Jain earns ₹ 30336 more than Mrs. Jain in a year. Their daughter Aditi earns ₹ 15000 less than Mr. Jain in a year. How much do they earn altogether in a year.**

Sol. Income of Mrs. Jain
= ₹ 54555
Income of Mr. Jain
= ₹ 54555 + ₹ 30336
= ₹ 84891

5	4	5	5	5
+3	0	3	3	6
8	4	8	9	1

Income of Aditi = 54555 + ₹ 15000
= ₹ 395555

∴ Total income
= ₹ 54555 + ₹ 84891 + ₹ 39555

5	4	5	5	5
–1	5	0	0	0
3	9	5	5	5

5	4	5	5	5
8	4	8	9	1
+3	9	5	5	5
1	7	9	0	0	1

= ₹ 179001 **Ans.**

6. **A factory produced 187300 scooters in first year. It produced 5250 scooters less in second year. How many scooters were produced by the factory in second year?**

Sol. Scooters produced in the first year
= –18730

1	8	7	3	0
	–5	2	5	0
1	3	4	8	0

Scooters produced in the second year = 18730 – 5250
= 13480

∴ Scooters produced in the second year
= 13480 scooters **Ans**

7. **Mr. Anil purchased a land for ₹ 35250 and built a house on it by spending ₹ 270750. He sells it for ₹ 380000. What amount will he get more than what he spent?**

Sol. Amount spent on purchasing land = ₹ 35250
Amount spent on building house = ₹ 270750

	3	5	2	5	0
+2	7	0	7	5	0
3	0	6	0	0	0

Selling price of the house = ₹ 38000

∴ Profit = ₹ 380000 – ₹ 35250 + 270750

= ₹ 380000 – ₹ 306000

	3	8	0	0	0	0
–3	0	6	0	0	0
		7	4	0	0	0

= ₹ 74000

∴ Amount Mr. Anil got more = ₹ 74000

8. What number must be subtracted from 888888 to get 333333?

Sol. Minuend = 888888,

Difference = 333333

∴ Subtrahend = Minuend – Difference

= 888888 – 333333

	8	8	8	8	8	8
–3	3	3	3	3	3
	5	5	5	5	5	5

= 555555

∴ The number must be subtracted from 88888 to get 333333 = 555555

9. A man wants to buy a car whose cost is ₹ 525550. He find that he need ₹ 160000 more than the amount of money he has. How much money does he have?

Sol. Cost of the car = ₹ 525550

Money needed more = ₹ 160000

∴ Money with him

= ₹ 525550 – ₹ 160000

	5	2	5	5	5	0
–1	6	0	0	0	0
	3	6	5	5	5	0

= 365550

∴ The money the man has = ₹ 365550

10. By how much the sum of 532563 and 6717 is greater than the sum of 5525 and 555?

Sol. Sum of 532563 and 6717

= 532563 + 6717 = 538780

Sum of 5525 and 555

= 5525 + 555 = 6080

5	3	2	5	6	3
	+6	7	1	7
5	3	9	2	8	0

5	5	2	5
	+5	5	5
6	0	8	0

Difference = 538780 – 6080

= 533200

∴ The sum of 532563 and 6717 is greater

than the sum of 5525 and 555 by 533200

5	3	9	2	8	0
	–	6	0	8	0
5	3	3	2	0	0

Ans

11. Mr. Kannu purchased a flat for ₹ 929599 and Mr. Tanu purchased a flat for ₹ 9,99,999. Whose flat was costly and by how much?

Sol. Amount paid by

Mr. Kannu = ₹ 929599

Amount paid by

Mr. Tanu = ₹ 999999

9	9	9	9	9	9
–9	2	9	5	9	9
	7	0	4	0	0

Difference between the amount paid

= ₹ 999999 – ₹ 929599

= ₹ 70400

∴ Mr. Tanu's house is costilier, by ₹ 70400 than Mr. Kannu's house.

12. A shopkeeper had 86500 kg rice in stock. He sold out 15638 kg, 25615 kg and 32575 kg in three days. How much rice was left in his stock?

Sol. Rice in the stock = 86500 kg

Rice sold in three days

= 15638 kg, 25615 kg and 32575 kg

∴ Rice left in the stock

= 86500 kg – 15638 lg + 25165 kg

+ 32575 kg

1	5	6	3	8
2	5	6	1	5
+3	2	5	7	5
7	3	8	2	8

8	6	5	0	0
–7	3	8	2	8
1	2	6	7	2

= 86500 kg – 73828 kg

= 12672 kg

∴ The rice left in the stock = 12672 kg.

13. Aditi bought a video game worth ₹12785 and Diksha bought a video game worth ₹ 5693. How much more Aditi spent?

Ans. Amount spend by Aditi = ₹12785

Amount spend by Diksha = ₹ 5693

∴ Difference = ₹12785 – ₹ 5693

1	2	7	8	5
–5	6	9	3
	7	0	9	2

= ₹ 7092

∴ Aditi spend ₹ 7092 more than Diksha.

14. The sum of two numbers is **82412. One of the number is 25825, find the other.**

Ans. The sum of the two numbers = 82412
One of the number = 25825
Other number = 82412 – 25825
= 56587

```
  8 2 4 1 2
– 2 5 8 2 5
  5 6 5 8 7
```

∴ The other number = 56587   **Ans**

15. There were **95750 mangoes in a mango grove. 22555 mangoes fell down in a storm. 35420 mangoes were picked from the trees. How many mangoes were left on the trees?**

Sol. Total number of mangoes = 95750
Mangoes fell down = 22555
Mangoes picked = 35420

∴ Mangoes left
= 95750 – 22555 + 35420

```
  2 2 5 5 5        9 5 7 5 0
+ 3 5 4 2 0      – 5 7 9 7 5
  5 7 9 7 5        3 7 7 7 5
```

= 95750 – 57975
= 37775

∴ Number of mangoes left on the trees
= 37775 mangoes

16. **Simplify:**

Sol. (a) 3156 + 4215 – 4056

```
  3 1 5 6          7 3 7 1
+ 4 2 1 5   ⇒    – 4 0 5 6
  7 3 7 1          3 3 1 5
```

∴ Answer = 3315

(b) 2156 – 1002 + 352

```
  2 1 5 6          1 1 5 4
– 1 0 0 2   ⇒    + 3 5 2
  1 1 5 4          1 5 0 6
```

∴ Answer = 1506

(c) 3450 – 5186 + 5584

```
  3 4 5 0          9 0 3 4
– 5 5 8 4   ⇒    – 5 1 8 6
  9 0 3 4          3 8 4 8
```

∴ Answer = 3848

(d) 3678 + 1528 – 2786

```
  3 6 7 8          5 2 0 6
+ 1 5 2 8   ⇒    – 2 7 8 6
  5 2 0 6          2 4 2 0
```

∴ Answer = 2420

(e)
```
  4 8 3 5 514       4 3 7 9
  – 4 5 6         – 1 5 1 4
  4 3 7 9   ⇒      2 8 6 5
```

∴ Answer = 2865

(f) 4856 – 127 – 1567

```
  4 8 5 6          4 7 2 9
– 1 2 7          – 1 5 6 7
  4 7 2 9   ⇒      3 1 6 2
```

∴ Answer = 3162

(g) 27328 – 14358 + 12514 – 20507

```
  2 7 3 2 8          1 2 9 7 0
– 1 4 3 5 8   ⇒    + 1 2 5 1 4
  1 2 9 7 0          2 5 4 8 4
```

```
              2 5 4 8 4
        ⇒   – 2 0 5 0 7
                4 9 7 7
```

∴ Answer = 4977

(h) 56035 – 40347 – 2124 + 3575

```
  5 6 0 3 5          1 5 6 8 8
– 4 0 3 4 7        – 2 1 2 4
  1 5 6 8 8   ⇒      1 3 5 6 4
```

```
  1 3 5 6 4          1 7 1 3 9
+ 3 5 7 5          – 2 2 2
  1 7 1 3 9   ⇒      1 6 9 1 7
```

∴ Answer = 16917

(i) 10350 – 888 + 8888 – 7665

```
  1 0 3 5 0          9 4 6 2
  – 8 8 8          + 8 8 8 8
  9 4 6 2   ⇒      1 8 3 5 0
```

```
  1 8 3 5 0          1 0 6 8 5
– 7 6 6 5          + 9 9 9
  1 0 6 8 5   ⇒      1 1 6 8 4
```

```
  1 1 6 8 4
  – 3 5 3
  1 1 3 3 1
```

∴ Answer = 11331

Worksheet

Answer the following questions:

1. What is the total population of **Gurgaon and Greater Nodia?**

Ans. 397396

2. What is the difference in the population of the most populated city and the least populated city?
Ans. 940950

3. What is the difference between the populaton of Noida and Gurgaon?
Ans. 65088

Find out

Ans. 1. The population of the city you live in. **Do it yourself.**
2. The total population of India **1,210,193,422,(1.21 billion)**
3. Which is the most populated city of India? **Mumbai**
4. On which date is population day celebrated? **July 11**

6 Multiplication

Exercise-9

1. $15 \times 9,125$

Ans.
```
     9 1 2 5
   ×    1 5
   4 5 6 2 5
   9 1 2 5 0
 1 3 6 8 7 5
```

2. $25 \times 1,156$
```
     1 1 5 6
   ×    2 5
     5 7 8 0
   2 3 1 2 0
   2 8 9 0 0
```

3. $2 \times 9,248$

Ans.
```
     9 2 4 8
   ×      2
   1 8 4 9 6
```

4. $21 \times 3,257$
```
     3 2 5 7
   ×    2 1
     3 2 5 7
   6 5 1 4 0
   6 8 3 9 7
```

5. $14 \times 9,326$

Ans.
```
     9 3 2 6
   ×    1 4
   3 7 3 0 4
   9 3 2 6 0
 1 3 0 5 6 4
```

6. $9 \times 4,236$
```
     4 2 3 6
   ×      9
   3 8 1 2 4
```

7. $13 \times 8,111$

Ans.
```
     8 1 1 1
   ×    1 3
   2 4 3 3 3
   8 1 1 1 0
 1 0 5 4 4 3
```

8. $13 \times 2,156$
```
     2 1 5 6
   ×    1 3
     6 4 6 8
   2 1 5 6 0
   2 8 0 2 8
```

9. $9 \times 7,212$

Ans.
```
     7 2 1 2
   ×      9
   6 4 9 0 8
```

10. $9 \times 3,321$
```
     3 3 2 1
   ×      9
   2 9 8 8 9
```

11. $11 \times 6,321$

Ans.
```
     6 3 2 1
   ×    1 1
     6 3 2 1
   6 3 2 1 0
   6 9 5 3 1
```

12. $8 \times 1,156$
```
     1 1 5 6
   ×      8
     9 2 4 8
```

13. $12 \times 5,156$

Ans.
```
     5 1 5 6
   ×    1 2
   1 0 3 1 2
   5 1 5 6 0
   6 1 8 7 2
```

14. 7×928
```
     9 2 8
   ×    7
   6 4 9 6
```

15. $3 \times 6,137$

Ans.
```
     6 1 3 7
   ×      3
   1 8 4 1 1
```

16. $5 \times 2,338$
```
     2 3 3 8
   ×      5
   1 1 6 9 0
```

17. $5 \times 5,248$

Ans.
```
     5 2 4 8
   ×      5
   2 6 2 4 0
```

18. 6×825
```
     8 2 5
   ×    6
   4 9 5 0
```

19. $31 \times 2,324$

Ans.
```
     2 3 2 4
   ×    3 1
     2 3 2 4
   6 9 7 2 0
   7 2 0 4 4
```

20. 4×1212
```
     1 2 1 2
   ×      4
   4 8 4 8
```

Exercise-10

1. Use the properties of multiplication and fill in the blanks :

Ans.
(a) $8 \times 15 = 15 \times \mathbf{8}$
(b) $28 \times 12 = \mathbf{12} \times 28$
(c) $518 \times 215 = \mathbf{215} \times 518$
(d) $205 \times 1 = \mathbf{205}$
(e) $1 \times 150 = \mathbf{150}$
(f) $2048 \times 0 = \mathbf{0}$
(g) $785 \times \mathbf{0} = 0$
(h) $626 \times \mathbf{0} = 0$
(i) $705 \times (25 + \mathbf{17}) = (705 \times 25)$
$+ (705 \times 17)$
(j) $45 \times (28 + 32) = (45 \times \mathbf{28})$
$+ (45 \times \mathbf{32})$
(k) $102 \times (56 - 43) = (\mathbf{102} \times 56)$
$- (102 \times \mathbf{43})$