



# 1 Large Numbers

## Exercise 1.1

**1. Write in the short form.**

- Ans. a. 54,321      b. 9,75,352      c. 45,37,519      d. 6,25,97,225  
 e. 24,3051,068      f. 9,85,06,347      g. 30,72,856

**2. Write in the expanded form.**

- Ans. a.  $30000 + 9000 + 600 + 30 + 5$       b.  $200000 + 70000 + 2000 + 0 + 90 + 8$   
 c.  $4000000 + 900000 + 50000 + 3000 + 400 + 30 + 2$   
 d.  $70000000 + 2000000 + 700000 + 0 + 9000 + 600 + 10 + 3$   
 e.  $500000000 + 50000000 + 7000000 + 900000 + 0 + 0 + 300 + 0 + 2$   
 f.  $800000000 + 70000000 + 0 + 900000 + 0 + 9000 + 300 + 50 + 6$   
 g.  $6000000 + 200000 + 20000 + 6000 + 700 + 10 + 9$

**3. Write in figures.**

Ans.      TC    C      TL    L      TTh    Th      H    T    O

a.                         

b.      TC    C      TL    L      TTh    Th      H    T    O

c.      TC    C      TL    L      TTh    Th      H    T    O

d.      TC    C      TL    L      TTh    Th      H    T    O

e.      TC    C      TL    L      TTh    Th      H    T    O

**4. Write in figures.**

Ans.      HB    TB    B      HM    TM    M      HTh    TTh    Th      H    T    O

a.                             

b.      HB    TB    B      HM    TM    M      HTh    TTh    Th      H    T    O

c.      HB    TB    B      HM    TM    M      HTh    TTh    Th      H    T    O

**5. Write in figures in your notebook :**

- Ans.** a. 5,49,378      b. 74.05,948      c. 3,09,23,205      d. 97,00,97,400  
e. 4,31,651      f. 2,084,777      g. 83,529,101      h. 6,009,050,392

**6. Write in words using the Indian system of numeration.**

- Ans.** a. 59,843      Fifty-nine thousand eight hundred and forty three.  
b. 60,060      Sixty thousand and sixty.  
c. 2,42,516      Two lakh forty-two thousand five hundred and sixteen.  
d. 7,04,314      Seven lakh four thousand three hundred and fourteen.  
e. 29,43,000      Twenty-nine lakh forty-three thousand  
f. 95,40,458      Ninety-five lakh forty thousand four hundred and fifty eight  
g. 5,72,35,471      Five crore seventy-two lakh thirty five thousand four hundred seventy one.  
h. 6,49,05,000      Six crore forty-nine lakh five thousand.

**7. Write the number names using the international system of numeration.**

- Ans.** a. 437,941      Four hundred thirty seven thousand nine hundred and forty-one.  
b. 701,286      Seven hundred one thousand two hundred and eighty-six.  
c. 5,325,844      Five million three hundred twenty five thousand eight hundred and forty-four.  
d. 8,064,200      Eight million sixty-four thousand two hundred.  
e. 36,500,000      Thirty six million five hundred thousand.  
f. 9,540,458      Nine million five hundred forty thousand four hundred and fifty-eight.  
g. 57,235,471      Fifty-seven million two hundred thirty five thousand four hundred and seventy-one  
h. 495,381,025      Four hundred ninety five million three hundred eighty-one thousand and twenty five.

**8. Rewrite the numbers with commas separating the periods using first the Indian system and then the international system of numeration.**

- Ans.** a. 5,12,356 and 512,356      b. 4,32,351 and 432,357  
c. 13,54,603 and 1,354,603      d. 57,58,590 and 5,758,590  
e. 30,63,012 and 3,063,012      f. 2,25,91,681 and 22,591,681  
g. 5,55,555 and 555,555      h. 4,39,00,734 and 43,900,734

**9. Write four consecutive numbers that come after :**

- Ans.** a. 79,698      79,699      79,700      79,701  
b. 3,49,999      3,50,000      3,50,001      3,50,002  
c. 29,73,500      29,73,501      29,73,502      29,73,503  
d. 5,84,00,704      5,84,00,705      5,84,00,706      5,84,00,707  
e. 66,03,96,001      66,03,96,002      66,03,96,003      66,03,96,004

**10. Write the predecessor of :**

- Ans.** a. **64,999**      65,000      b. **1,40,999**      1,41,000  
c. **5,90,202**      5,90,203      d. **82,3999**      82,40,000  
e. **7,46,29,322**      7,46,29,323      f. **11,23,71,067**      11,23,71,068

**11. Write the successor of :**

- Ans.** a. 49,000      **49,001**      b. 68,099      **68,100**  
c. 8,39,999      **8,40,000**      d. 57,63,805      **57,63,806**  
e. 6,09,99,999      **6,10,00,000**      f. 38,00,05,019      **38,00,05,020**

**Exercise 1.2**

**1. Fill in the blanks :**

- Ans.** a. lakhs, thousands      b. ten lakhs, ten thousands  
c. crores, lakhs      d. 4,400000  
e. 7,7000000      f. 6, 4  
g. 3000000, 90000      h. 80000000, 6000

**2. Write the place value of the given digits.**

- Ans.** a. 52,974      500000,      2000,      900,      4  
b. 36,801      1,      800,      6000,      30000  
c. 2,63,475      200000,      60000,      3000,      400  
d. 6,32,547      2000,      600000,      30000,      40  
e. 63,2000,      2,000      6000000,      300000,      40000  
f. 87,93,420      8000000,      700000,      3000,      30000  
g. 79,65,803      800,      7000000,      3,      0  
h. 4,37,98,562      40000000,      3000000,      700000,      90000

**3. Write >, or < or =.**

- Ans.** a. >      b. =      c. <      d. <  
e. <      f. >      g. =      h. <

**4. Write the smallest and the largest numbers.**

- Ans.**      **Smallest Number**      **Largest Number**  
a. 99,999      4,67,823  
b. 22,222      22,22,22,222  
c. 677 841      7685126  
d. 300,000      30,000,000

**5. Write in descending order.**

- Ans.** a. 82,567      73,642      72,897      35,227      28,493  
b. 7 80 900      6 49 700      6 43 86      6 42 589      4 39 571

**6. Write in ascending order.**

- Ans.** a. 5520      63825      742503      8420369      9316224  
b. 71,421,      8,16,324      9,75,342      56,64,248      89,10,123

**MCQs**

- Ans.** 1. (iii) 2. (iii) 3. (iv) 4. (i) 5 (ii)



## 2 The Four Fundamental Operations

### Exercise 2.1

1. Find the sum of the following :

Ans. a. 
$$\begin{array}{r} \textcircled{0}\textcircled{0} \textcircled{0} \\ 28315 \\ + 19706 \\ \hline 48021 \end{array}$$

b. 
$$\begin{array}{r} \textcircled{0}\textcircled{0}\textcircled{0} \\ 60789 \\ + 3968 \\ \hline 64757 \end{array}$$

c. 
$$\begin{array}{r} \textcircled{0} \textcircled{0}\textcircled{0} \\ 43217 \\ + 27685 \\ \hline 70902 \end{array}$$

d. 
$$\begin{array}{r} \textcircled{0}\textcircled{0} \textcircled{0} \\ 595082 \\ + 218745 \\ \hline 913827 \end{array}$$

e. 
$$\begin{array}{r} \textcircled{0} \textcircled{0}\textcircled{0} \\ 502036 \\ + 39587 \\ \hline 541623 \end{array}$$

f. 
$$\begin{array}{r} \textcircled{0}\textcircled{0}\textcircled{0} \\ 213876 \\ + 49253 \\ \hline 263129 \end{array}$$

2. Add the following :

Ans. a. 
$$\begin{array}{r} \textcircled{0}\textcircled{2}\textcircled{0}\textcircled{0}\textcircled{0} \\ 404296 \\ 387404 \\ + 119378 \\ \hline 911078 \end{array}$$

b. 
$$\begin{array}{r} \textcircled{0} \textcircled{0}\textcircled{0} \\ 45378 \\ 29046 \\ + 38049 \\ \hline 112473 \end{array}$$

c. 
$$\begin{array}{r} \textcircled{0}\textcircled{0}\textcircled{2}\textcircled{0} \\ 10895 \\ 29876 \\ + 4987 \\ \hline 45758 \end{array}$$

d. 
$$\begin{array}{r} \textcircled{0}\textcircled{2}\textcircled{0}\textcircled{0} \\ 3862 \\ 49728 \\ + 108965 \\ \hline 162555 \end{array}$$

e. 
$$\begin{array}{r} \textcircled{0}\textcircled{2}\textcircled{0}\textcircled{0}\textcircled{0} \\ 69731 \\ 108426 \\ + 23485 \\ \hline 201642 \end{array}$$

f. 
$$\begin{array}{r} \textcircled{0}\textcircled{0}\textcircled{0}\textcircled{0} \\ 8090 \\ 709765 \\ + 435 \\ \hline 718290 \end{array}$$

3. Find the number in each of the following :

Ans. a. Let the number be 'x'.

$$\therefore x = \begin{array}{r} 72849 \\ + 1000 \\ \hline 73849 \end{array}$$

Hence, the required number is 73,849.

b. Let the number be 'x'.

$$\therefore x = \begin{array}{r} \textcircled{0} \\ 29736 \\ + 300 \\ \hline 30036 \end{array}$$

Hence, the required number is 30,036.

c. Let the number be 'x'.

$$\therefore x = \begin{array}{r} \textcircled{0} \\ 39260 \\ + 5500 \\ \hline 44760 \end{array}$$

Hence, the required number is 44,760.

d. Let the number be 'x'.

$$\therefore x = \begin{array}{r} 70928 \\ + 6000 \\ \hline 76928 \end{array}$$

Hence, the required number is 76,928.

e. Let the number be 'x'.

$$\therefore x = \begin{array}{r} 279184 \\ + 300000 \\ \hline 579184 \end{array}$$
 Hence, the required number is 5,79,184.

f. Let the number be 'x'.

$$\begin{array}{r} \therefore x = 327508 \\ + 90 \\ \hline 327598 \end{array}$$

Hence, the required number is 2,27,598.

**4. Find the missing digits in each of the following :**

Ans. a. 
$$\begin{array}{r} 72\textcircled{0}84 \\ + \textcircled{1}09\textcircled{6}7 \\ \hline 8\textcircled{3}051 \end{array}$$

b. 
$$\begin{array}{r} 35247 \\ + \textcircled{1}9\textcircled{6}86 \\ \hline 54933 \end{array}$$

c. 
$$\begin{array}{r} 36542 \\ + 20897 \\ \hline 57439 \end{array}$$

d. 
$$\begin{array}{r} 634529 \\ + 187687 \\ \hline 822216 \end{array}$$

**5. Solve the following word problems :**

Ans. a. Total number of tea leaves plucked in three days  $\textcircled{0}\textcircled{0}\textcircled{2}$   
 Hence, the total number of tea leaves plucked  
 in three days are **90,109**.

$$\begin{array}{r} 12250 \\ 34278 \\ + 43581 \\ \hline 90109 \end{array}$$

b. Production of cars in the year 2016 = 1,27,695  $\textcircled{0}\textcircled{0}\textcircled{0}\textcircled{0}$   
 Production of cars in the year 2017 = 98,895  
 Total production = **5,32,379**

$$\begin{array}{r} 127695 \\ 98895 \\ + 305789 \\ \hline 532379 \end{array}$$

Hence, the total production is 5,32,379 cars and most production year is 2018.

c. Showroom price of car = ₹ 4,35,690  $\textcircled{0}\textcircled{0}\textcircled{2}$   
 Money spent on accessories = ₹ 35,975  
 Amount paid for registration, insurance and road  
 tax = ₹ 46,670  
 $\therefore$  Total amount paid by Mr. Dutta for car **5,18,335**

$$\begin{array}{r} 435690 \\ 35975 \\ + 46670 \\ \hline 518335 \end{array}$$

Hence, the total amount paid by Mr. Dutta for the car is ₹ **5,18,335**.

**Exercise 2.2**

**1. Subtract the following :**

Ans. a. 
$$\begin{array}{r} \textcircled{3}\textcircled{1}\textcircled{5}\textcircled{11} \\ 43609 \\ - 19786 \\ \hline 51062 \end{array}$$

b. 
$$\begin{array}{r} \textcircled{2}\textcircled{11}\textcircled{14}\textcircled{15}\textcircled{12} \\ 32872 \\ - 18695 \\ \hline 13877 \end{array}$$

c. 
$$\begin{array}{r} \textcircled{6}\textcircled{11}\textcircled{7}\textcircled{14} \\ 70848 \\ - 19786 \\ \hline 51062 \end{array}$$

c. 
$$\begin{array}{r} \textcircled{6}\textcircled{11}\textcircled{7}\textcircled{14} \\ 102870 \\ - 78947 \\ \hline 23629 \end{array}$$

d. 
$$\begin{array}{r} \textcircled{2}\textcircled{9}\textcircled{17}\textcircled{14} \\ 308469 \\ - 198753 \\ \hline 109716 \end{array}$$

e. 
$$\begin{array}{r} \textcircled{2}\textcircled{17}\textcircled{18}\textcircled{14}\textcircled{15}\textcircled{12} \\ 389872 \\ - 199876 \\ \hline 189996 \end{array}$$

2. Subtract each of the following and check the answer :

Ans.

a. 
$$\begin{array}{r} \overset{\textcircled{6}}{7} \overset{\textcircled{11}}{2} \overset{\textcircled{12}}{3} \overset{\textcircled{14}}{4} 5 \\ - 58764 \\ \hline 13581 \end{array}$$

Check

$$\begin{array}{r} \overset{\textcircled{0}}{5} \overset{\textcircled{0}}{8} \overset{\textcircled{0}}{7} 64 \\ + 13581 \\ \hline 72345 \end{array}$$

b. 
$$\begin{array}{r} \overset{\textcircled{6}}{3} \overset{\textcircled{9}}{0} \overset{\textcircled{17}}{8} \overset{\textcircled{13}}{5} \overset{\textcircled{14}}{4} \\ - 19876 \\ \hline 10978 \end{array}$$

Check

$$\begin{array}{r} \overset{\textcircled{0}}{1} \overset{\textcircled{0}}{9} \overset{\textcircled{0}}{8} 76 \\ + 10978 \\ \hline 30854 \end{array}$$

c. 
$$\begin{array}{r} \overset{\textcircled{4}}{5} \overset{\textcircled{16}}{7} \overset{\textcircled{12}}{3} \overset{\textcircled{11}}{2} \overset{\textcircled{10}}{1} \overset{\textcircled{16}}{0} \\ - 289578 \\ \hline 283638 \end{array}$$

Check

$$\begin{array}{r} \overset{\textcircled{0}}{2} \overset{\textcircled{0}}{8} \overset{\textcircled{0}}{9} 578 \\ + 283638 \\ \hline 573216 \end{array}$$

d. 
$$\begin{array}{r} \overset{\textcircled{9}}{1} \overset{\textcircled{11}}{0} \overset{\textcircled{15}}{2} \overset{\textcircled{8}}{3} \overset{\textcircled{18}}{9} \overset{\textcircled{18}}{8} \\ - 98769 \\ \hline 03829 \end{array}$$

Check

$$\begin{array}{r} \overset{\textcircled{0}}{9} \overset{\textcircled{0}}{8} \overset{\textcircled{0}}{7} 69 \\ + 03829 \\ \hline 102598 \end{array}$$

e. 
$$\begin{array}{r} \overset{\textcircled{8}}{6} \overset{\textcircled{17}}{0} \overset{\textcircled{16}}{8} \overset{\textcircled{13}}{7} \overset{\textcircled{12}}{4} 2 \\ - 589876 \\ \hline 108866 \end{array}$$

Check

$$\begin{array}{r} \overset{\textcircled{0}}{5} \overset{\textcircled{0}}{8} \overset{\textcircled{0}}{9} 876 \\ + 108866 \\ \hline 698742 \end{array}$$

f. 
$$\begin{array}{r} \overset{\textcircled{2}}{3} \overset{\textcircled{9}}{0} \overset{\textcircled{9}}{0} \overset{\textcircled{9}}{0} \overset{\textcircled{9}}{0} \overset{\textcircled{10}}{0} \\ - 299999 \\ \hline 000001 \end{array}$$

Check

$$\begin{array}{r} \overset{\textcircled{0}}{2} \overset{\textcircled{0}}{9} \overset{\textcircled{0}}{9} \overset{\textcircled{0}}{9} 99 \\ + 000001 \\ \hline 300000 \end{array}$$

3. Find the difference on subtracting the following :

Ans.

a. 
$$\begin{array}{r} \overset{\textcircled{7}}{9} \overset{\textcircled{16}}{8} \overset{\textcircled{18}}{7} 89 \\ - 60894 \\ \hline 37895 \end{array}$$

b. 
$$\begin{array}{r} \overset{\textcircled{8}}{8} \overset{\textcircled{17}}{9} \overset{\textcircled{17}}{0} 88 \\ - 39498 \\ \hline 50489 \end{array}$$

c. 
$$\begin{array}{r} \overset{\textcircled{1}}{2} \overset{\textcircled{9}}{0} \overset{\textcircled{9}}{0} \overset{\textcircled{14}}{0} \overset{\textcircled{17}}{8} 7 \\ - 163498 \\ \hline 036559 \end{array}$$

d. 
$$\begin{array}{r} \overset{\textcircled{13}}{1} \overset{\textcircled{12}}{4} \overset{\textcircled{11}}{3} \overset{\textcircled{14}}{2} \overset{\textcircled{16}}{3} 6 \\ - 95968 \\ \hline 47288 \end{array}$$

e. 
$$\begin{array}{r} \overset{\textcircled{3}}{4} \overset{\textcircled{10}}{8} \overset{\textcircled{18}}{8} \overset{\textcircled{6}}{9} \overset{\textcircled{13}}{7} 3 \\ - 329807 \\ \hline 089166 \end{array}$$

f. 
$$\begin{array}{r} \overset{\textcircled{8}}{9} \overset{\textcircled{9}}{0} \overset{\textcircled{9}}{0} \overset{\textcircled{9}}{0} \overset{\textcircled{10}}{0} 0 \\ - 799999 \\ \hline 100001 \end{array}$$

4. Find the missing digits in each of the following :

Ans.

a. 
$$\begin{array}{r} 475\textcircled{4}6 \\ - 18\textcircled{6}35 \\ \hline \textcircled{2}8911 \end{array}$$

b. 
$$\begin{array}{r} 27450 \\ - 1\textcircled{6}5\textcircled{8}2 \\ \hline \textcircled{1}086\textcircled{8} \end{array}$$

$$\begin{array}{r} 65954 \\ - 28725 \\ \hline 37229 \end{array}$$

$$\begin{array}{r} 738627 \\ - 513061 \\ \hline 225566 \end{array}$$

**5. Solve the following word problems :**

**Ans.** a. Production of bulbs in the month of may = 86,740  
 Number of defected bulbs = 1897  

$$\begin{array}{r} 86740 \\ - 1897 \\ \hline 84843 \end{array}$$

∴ Number of bulbs for sale to the market  
 Hence, the required number of bulbs are 84,843.

b. The population of a town = 8,76,543  
 Number of males = 5,42,678  

$$\begin{array}{r} 876543 \\ - 542678 \\ \hline 333865 \end{array}$$
  
 ∴ The number of females  
 Hence, the number of females in the town are 3,33,865.

c. Sum of 23,625 and 4,374 = ∴ The required difference =

$$\begin{array}{r} 23625 \\ + 4374 \\ \hline 27999 \end{array}$$

$$\begin{array}{r} 27888 \\ - 27999 \\ \hline 24834 \end{array}$$

Hence, the required difference is 2,48,344.

**Exercise 2.3**

**1. Find the following products :**

**Ans.** a. 
$$\begin{array}{r} 7654 \\ \times 8 \\ \hline 61232 \end{array}$$

b. 
$$\begin{array}{r} 8709 \\ \times 7 \\ \hline 60963 \end{array}$$

c. 
$$\begin{array}{r} 2659 \\ \times 9 \\ \hline 23931 \end{array}$$

d. 
$$\begin{array}{r} 5283 \\ \times 6 \\ \hline 31698 \end{array}$$

e. 
$$\begin{array}{r} 4752 \\ \times 5 \\ \hline 23760 \end{array}$$

f. 
$$\begin{array}{r} 8543 \\ \times 4 \\ \hline 34172 \end{array}$$

**2. Multiply the following :**

**Ans.** a. 
$$\begin{array}{r} 2095 \\ \times 48 \\ \hline 16760 \\ 83800 \\ \hline 100560 \end{array}$$

b. 
$$\begin{array}{r} 7618 \\ \times 76 \\ \hline 45708 \\ 533260 \\ \hline 578968 \end{array}$$

c. 
$$\begin{array}{r} 3274 \\ \times 89 \\ \hline 29466 \\ 261920 \\ \hline 291386 \end{array}$$

d. 
$$\begin{array}{r} 4376 \\ \times 54 \\ \hline 17504 \\ 218800 \\ \hline 236304 \end{array}$$

e. 
$$\begin{array}{r} 2093 \\ \times 67 \\ \hline 14651 \\ 125580 \\ \hline 140231 \end{array}$$

f. 
$$\begin{array}{r} 5768 \\ \times 68 \\ \hline 46144 \\ 346080 \\ \hline 392224 \end{array}$$

**3. Multiply the following :**

**Ans. a.**

$$\begin{array}{r} 3082 \\ \times 265 \\ \hline 15410 \\ 184920 \\ 616400 \\ \hline 816730 \end{array}$$

**b.**

$$\begin{array}{r} 2574 \\ \times 198 \\ \hline 20592 \\ 231660 \\ 257400 \\ \hline 509652 \end{array}$$

**c.**

$$\begin{array}{r} 4829 \\ \times 364 \\ \hline 19316 \\ 289740 \\ 1448700 \\ \hline 1757756 \end{array}$$

**d.**

$$\begin{array}{r} 3687 \\ \times 408 \\ \hline 29496 \\ 00000 \\ 1474800 \\ \hline 1504296 \end{array}$$

**e.**

$$\begin{array}{r} 5613 \\ \times 297 \\ \hline 39291 \\ 505170 \\ 1122600 \\ \hline 1667061 \end{array}$$

**f.**

$$\begin{array}{r} 3082 \\ \times 498 \\ \hline 24656 \\ 277380 \\ 1232800 \\ \hline 1534836 \end{array}$$

**4. Solve the following word problems :**

**Ans. a.** We have,  
 1 day = 24 hours                      1 hours = 60 minutes  
 $\therefore$  Total number of minutes in a day =  $1 \times 24 \times 60$  minutes  
 = 1440 minutes.

**b.** Total number of children = 1827  
 Fee amount of each child per month = ₹ 489

$$\begin{array}{r} 827 \\ \times 489 \\ \hline 16443 \\ 146160 \\ 730800 \\ \hline 893403 \end{array}$$

$\therefore$  Total money collected by school per month  
 = ₹  $827 \times 489$   
 = ₹ 8,93,403

Hence, total money collected by school per month is ₹ 8,93,403

**c.** Number of bulbs manufactured every = 2600  
 Number of days in the month of March = 31

$$\begin{array}{r} 2600 \\ \times 31 \\ \hline 2600 \\ 7800 \\ \hline 80600 \end{array}$$

$\therefore$  Total number of bulbs manufactured in the month of March =  $2600 \times 31 = 80,600$   
 Hence, the required number of bulbs are 80,600.

**Exercise 2.4**

**1. Multiply the following :**

**Ans. a. Step 1.** First multiply the non-zero digits  $3 \times 6 = 18$   
**Step 2.** Put as many zeros, as there are in all the numbers.  
 $\therefore 30 \times 600 = 18,000$

**b. Step 1.** First multiply the non-zero digits  
 $6 \times 5 = 30$   
**Step 2.** Put as many zeros, as there are in all the numbers.  
 $\therefore 60 \times 500 = 30,000$

**Similarly,**

**c.**  $25 \times 4 = 100$                       **d.**  $25 \times 8 = 200$   
 $\therefore 25 \times 400 = 10,000$                        $\therefore 25 \times 800 = 20,000$



- e.  $3 \times 4 \times 5 = 60$                       f.  $6 \times 5 \times 2 = 60$   
 $\therefore 30 \times 40 \times 500 = 6,00,000$                        $\therefore 60 \times 5 \times 20 = 6,000$

**2. Find the product for each of the following :**

- Ans. a. Step 1.** First multiply  $318 \times 5 = 1590$   
**Step 2.** Put as many zeros, as there are in the number.  
 $\therefore 318 \times 500 = 1,59,000$
- b. Step 1.** First multiply,  
 $\therefore 416 \times 6 = 2496$   
**Step 2.** Put as many zeros, as there are in the numbers.  
 $\therefore 416 \times 600 = 2,49,600$

Similarly,

- c.  $7821 \times 2 = 15642$                       d.  $3296 \times 7 = 23072$   
 $\therefore 7821 \times 200 = 1564200$                        $\therefore 3296 \times 70 = 230720$   
e.  $298 \times 3 = 894$                       f.  $81 \times 9 = 729$   
 $\therefore 298 \times 3000 = 8,94,000$                        $\therefore 81 \times 9000 = 7,29,000$

**3. Write the missing multiplicand in each of the following :**

- Ans. a.** 9      b. 80      c. 80      d. 90      e. 7      f. 7

**4. Multiply the following using lattice multiplication :**

- Ans. a.** Since the multiplicand and the multiplication are 3-digit numbers, we draw a  $3 \times 3$  square grid and divide each of the nine sub-squares with an oblique line.

**Step 1.** Write the digits of the multiplicand along the top horizontal side of the sub-square.

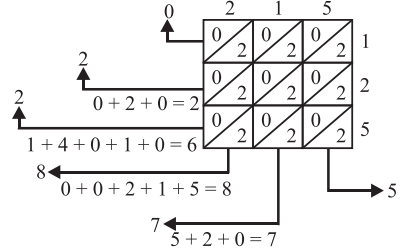
**Step 2.** Write the digits of the multiplier along the right vertical side of the sub square.

**Step 3.** Multiply each digit of the multiplicand with the one digit of a multiplier at a time.

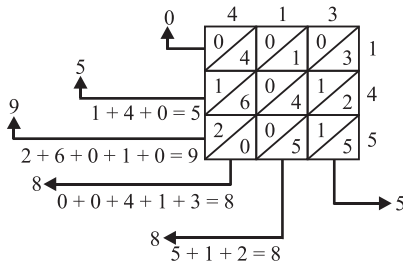
**Step 4.** Write the product by adding the sum (From extreme right) of the numbers in each parallel.

The product of  $215 \times 125 = 026875 = 26,875$

Similarly,

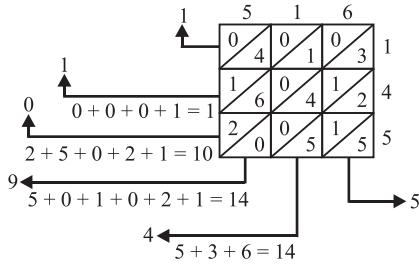


b.



$\therefore 413 \times 145 = 059885 = 59,885$

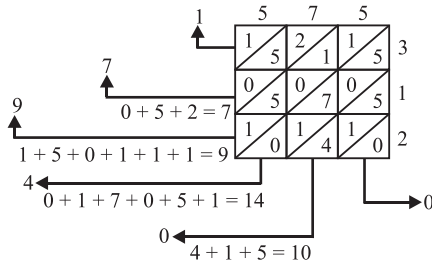
c.



∴

$$516 \times 215 = 110940.$$

d.



∴

$$575 \times 312 = 1,79,400$$

### Exercise 2.5

1. Find the quotient and check the answer in each of the following :

Ans. a. Verification :

$$\begin{array}{r}
 \begin{array}{l} \text{Quotient} \\ \text{Divisor} \end{array} \leftarrow \begin{array}{r} 0699 \\ 9 \overline{) 6294} \\ \underline{-0} \phantom{0} \\ \phantom{0} 62 \phantom{0} \\ \underline{-54} \phantom{0} \\ \phantom{0} 89 \phantom{0} \\ \underline{-81} \phantom{0} \\ \phantom{0} 84 \phantom{0} \\ \underline{-81} \\ \phantom{0} 3 \end{array} \begin{array}{l} \rightarrow \text{Quotient} \\ \rightarrow \text{Dividend} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \rightarrow \text{Remainder} \end{array}
 \end{array}$$

$$\begin{aligned}
 \text{Dividend} &= \text{Divisor} \times \text{Quotient} + \text{Remainder} \\
 &= 9 \times 699 + 3 = 6291 + 3 = 6294
 \end{aligned}$$

b. Verification :

$$\begin{array}{r}
 \begin{array}{l} \text{Quotient} \\ \text{Divisor} \end{array} \leftarrow \begin{array}{r} 0635 \\ 8 \overline{) 5086} \\ \underline{-0} \phantom{0} \\ \phantom{0} 50 \phantom{0} \\ \underline{-48} \phantom{0} \\ \phantom{0} 28 \phantom{0} \\ \underline{-24} \phantom{0} \\ \phantom{0} 46 \phantom{0} \\ \underline{-40} \\ \phantom{0} 6 \end{array} \begin{array}{l} \rightarrow \text{Quotient} \\ \rightarrow \text{Dividend} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \phantom{0} \\ \rightarrow \text{Remainder} \end{array}
 \end{array}$$

$$\begin{aligned} \text{Dividend} &= \text{Divisor} \times \text{Quotient} + \text{Remainder} \\ &= 8 \times 635 + 6 = 5080 + 6 = 5086 \end{aligned}$$

c. **Verification :**

$$\begin{array}{r} \text{Quotient} \longrightarrow 0465 \\ \text{Divisor} \longleftarrow 6 \overline{) 2794} \longrightarrow \text{Dividend} \\ \underline{-0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \phantom{0} \underline{-2} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \phantom{0} \phantom{0} \underline{-2} \phantom{0} \phantom{0} \phantom{0} \\ \phantom{0} \phantom{0} \phantom{0} \underline{3} \phantom{0} \phantom{0} \\ \phantom{0} \phantom{0} \phantom{0} \phantom{0} \underline{-3} \phantom{0} \\ \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \underline{3} \phantom{0} \\ \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \underline{-3} \phantom{0} \\ \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \underline{4} \longrightarrow \text{Remainder} \end{array}$$

$$\begin{aligned} \text{Dividend} &= \text{Divisor} \times \text{Quotient} + \text{Remainder} \\ &= 6 \times 465 + 4 = 2790 + 4 = 2794 \end{aligned}$$

d. **Verification :**

$$\begin{array}{r} \text{Quotient} \longrightarrow 04406 \\ \text{Divisor} \longleftarrow 7 \overline{) 30845} \longrightarrow \text{Dividend} \\ \underline{-0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \phantom{0} \underline{3} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \phantom{0} \phantom{0} \underline{-2} \phantom{0} \phantom{0} \phantom{0} \\ \phantom{0} \phantom{0} \phantom{0} \underline{2} \phantom{0} \phantom{0} \\ \phantom{0} \phantom{0} \phantom{0} \phantom{0} \underline{-2} \phantom{0} \\ \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \underline{0} \phantom{0} \\ \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \underline{-0} \\ \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \underline{4} \phantom{0} \\ \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \underline{-4} \phantom{0} \\ \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \underline{3} \longrightarrow \text{Remainder} \end{array}$$

$$\begin{aligned} \text{Dividend} &= \text{Divisor} \times \text{Quotient} + \text{Remainder} \\ &= 7 \times 4406 + 3 = 30842 + 3 = 30845 \end{aligned}$$

e. **Verification :**

$$\begin{array}{r} \text{Quotient} \longrightarrow 08559 \\ \text{Divisor} \longleftarrow 5 \overline{) 42798} \longrightarrow \text{Dividend} \\ \underline{-0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \phantom{0} \underline{4} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \phantom{0} \phantom{0} \underline{-4} \phantom{0} \phantom{0} \phantom{0} \\ \phantom{0} \phantom{0} \phantom{0} \underline{2} \phantom{0} \phantom{0} \\ \phantom{0} \phantom{0} \phantom{0} \phantom{0} \underline{-2} \phantom{0} \\ \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \underline{2} \phantom{0} \\ \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \underline{-2} \phantom{0} \\ \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \underline{4} \phantom{0} \\ \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \underline{-4} \phantom{0} \\ \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \underline{3} \longrightarrow \text{Remainder} \end{array}$$

$$\begin{aligned} \text{Dividend} &= \text{Divisor} \times \text{Quotient} + \text{Remainder} \\ &= 5 \times 8559 + 3 \\ &= 42,795 + 3 \\ &= 42,798 \end{aligned}$$

f. **Verification :**

$$\begin{array}{r}
 \begin{array}{l} \text{Divisor} \leftarrow 4 \end{array} \overline{) \begin{array}{l} 130096 \\ 520386 \end{array}} \begin{array}{l} \rightarrow \text{Quotient} \\ \rightarrow \text{Dividend} \end{array} \\
 \begin{array}{r}
 -4 \phantom{0000} \\
 \hline
 12 \phantom{000} \\
 -12 \phantom{00} \\
 \hline
 00 \phantom{00} \\
 -0 \phantom{00} \\
 \hline
 03 \phantom{0} \\
 -0 \phantom{0} \\
 \hline
 38 \\
 -36 \\
 \hline
 26 \\
 -24 \\
 \hline
 2 \phantom{0} \rightarrow \text{Remainder}
 \end{array}
 \end{array}$$

$$\text{Dividend} = \text{Divisor} \times \text{Quotient} + \text{Remainder}$$

$$= 4 \times 130096 + 2$$

$$= 520384 + 2$$

$$= 520386$$

2. **Find the quotient and check the answer in each of the following :**

Ans. a.

$$\begin{array}{r}
 \begin{array}{l} \text{Divisor} \leftarrow 24 \end{array} \overline{) \begin{array}{l} 2967 \\ 2967 \end{array}} \begin{array}{l} \rightarrow \text{Quotient} \\ \rightarrow \text{Dividend} \end{array} \\
 \begin{array}{r}
 -24 \phantom{00} \\
 \hline
 56 \phantom{0} \\
 -48 \phantom{0} \\
 \hline
 87 \\
 -72 \\
 \hline
 15 \rightarrow \text{Remainder}
 \end{array}
 \end{array}$$

$$\text{Verification : Dividend} = \text{Divisor} \times \text{Quotient} + \text{Remainder}$$

$$= 24 \times 123 + 15 = 2952 + 15 = 2967$$

b.

$$\begin{array}{r}
 \begin{array}{l} \text{Divisor} \leftarrow 19 \end{array} \overline{) \begin{array}{l} 304995 \\ 304995 \end{array}} \begin{array}{l} \rightarrow \text{Quotient} \\ \rightarrow \text{Dividend} \end{array} \\
 \begin{array}{r}
 -19 \phantom{0000} \\
 \hline
 114 \phantom{000} \\
 -114 \phantom{00} \\
 \hline
 09 \phantom{00} \\
 -0 \phantom{00} \\
 \hline
 99 \phantom{0} \\
 -95 \phantom{0} \\
 \hline
 45 \\
 -38 \\
 \hline
 7 \phantom{0} \rightarrow \text{Remainder}
 \end{array}
 \end{array}$$

$$\text{Verification : Dividend} = \text{Divisor} \times \text{Quotient} + \text{Remainder}$$

$$= 19 \times 16052 + 7 = 304988 + 7 = 304995$$

c.

$$\begin{array}{r}
 \begin{array}{c} \text{Divisor} \leftarrow 25 \end{array} \overline{) 64237} \begin{array}{c} \rightarrow \text{Quotient} \\ \rightarrow \text{Dividend} \end{array} \\
 \underline{- 50} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 142 \phantom{0} \phantom{0} \phantom{0} \\
 \underline{- 125} \phantom{0} \phantom{0} \phantom{0} \\
 173 \phantom{0} \phantom{0} \\
 \underline{- 150} \phantom{0} \\
 237 \\
 \underline{- 225} \\
 12 \rightarrow \text{Remainder}
 \end{array}$$

**Verification :** Dividend = Divisor  $\times$  Quotient + Remainder  
 $= 25 \times 2569 + 12$   
 $= 64225 + 12$   
 $= 64237$

d.

$$\begin{array}{r}
 \begin{array}{c} \text{Divisor} \leftarrow 32 \end{array} \overline{) 82496} \begin{array}{c} \rightarrow \text{Quotient} \\ \rightarrow \text{Dividend} \end{array} \\
 \underline{- 64} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 184 \phantom{0} \phantom{0} \phantom{0} \\
 \underline{- 160} \phantom{0} \phantom{0} \phantom{0} \\
 249 \phantom{0} \phantom{0} \\
 \underline{- 224} \phantom{0} \\
 256 \\
 \underline{- 256} \\
 0 \rightarrow \text{Remainder}
 \end{array}$$

**Verification :** Dividend = Divisor  $\times$  Quotient + Remainder  
 $= 32 \times 2578 + 0$   
 $= 82496 + 0$   
 $= 82,496$

e.

$$\begin{array}{r}
 \begin{array}{c} \text{Divisor} \leftarrow 17 \end{array} \overline{) 79864} \begin{array}{c} \rightarrow \text{Quotient} \\ \rightarrow \text{Dividend} \end{array} \\
 \underline{- 68} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 118 \phantom{0} \phantom{0} \phantom{0} \\
 \underline{- 102} \phantom{0} \phantom{0} \phantom{0} \\
 166 \phantom{0} \phantom{0} \\
 \underline{- 153} \phantom{0} \\
 134 \\
 \underline{- 119} \\
 15 \rightarrow \text{Remainder}
 \end{array}$$

**Verification :** Dividend = Divisor  $\times$  Quotient + Remainder  
 $= 17 \times 4697 + 15$   
 $= 79849 + 15$   
 $= 79864$

f.

$$\begin{array}{r}
 \begin{array}{c} \text{Divisor} \leftarrow 27 \end{array} \overline{) 52970} \begin{array}{c} \rightarrow \text{Dividend} \\ \rightarrow \text{Quotient} \end{array} \\
 \underline{-27} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 259 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-243} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 167 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-162} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 50 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-27} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 23 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \rightarrow \text{Remainder}
 \end{array}$$

**Verification :** Dividend = Divisor  $\times$  Quotient + Remainder  
 $= 27 \times 1961 + 23$   
 $= 52947 + 23$   
 $= 52970$

3. Find the quotient and check the answer in each of the following :

Ans. a.

$$\begin{array}{r}
 \begin{array}{c} \text{Divisor} \leftarrow 125 \end{array} \overline{) 625794} \begin{array}{c} \rightarrow \text{Dividend} \\ \rightarrow \text{Quotient} \end{array} \\
 \underline{-625} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 07 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 79 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 794 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-750} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 44 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \rightarrow \text{Remainder}
 \end{array}$$

**Verification :** Dividend = Divisor  $\times$  Quotient + Remainder  
 $= 125 \times 5006 + 44$   
 $= 625750 + 44$   
 $= 625794$

b.

$$\begin{array}{r}
 \begin{array}{c} \text{Divisor} \leftarrow 212 \end{array} \overline{) 408769} \begin{array}{c} \rightarrow \text{Dividend} \\ \rightarrow \text{Quotient} \end{array} \\
 \underline{-212} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 1967 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-1908} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 596 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-424} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 1729 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-1696} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 33 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \rightarrow \text{Remainder}
 \end{array}$$

**Verification :** Dividend = Divisor  $\times$  Quotient + Remainder  
 $= 212 \times 1928 + 33$   
 $= 408736 + 33$   
 $= 408769$

c.

$$\begin{array}{r}
 \begin{array}{l} \text{Divisor} \leftarrow \\ \leftarrow \end{array} 346 \overline{) 396754} \begin{array}{l} \rightarrow \text{Quotient} \\ \rightarrow \text{Dividend} \end{array} \\
 \underline{-346} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 507 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-346} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 1615 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-1384} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 2314 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-2076} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 238 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \rightarrow \text{Remainder}
 \end{array}$$

**Verification :** Dividend = Divisor  $\times$  Quotient + Remainder  
 $= 346 \times 1146 + 238 = 396516 + 238 = 396754$

d.

$$\begin{array}{r}
 \begin{array}{l} \text{Divisor} \leftarrow \\ \leftarrow \end{array} 236 \overline{) 28317} \begin{array}{l} \rightarrow \text{Quotient} \\ \rightarrow \text{Dividend} \end{array} \\
 \underline{-236} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 471 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-236} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 2357 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-2124} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 233 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \rightarrow \text{Remainder}
 \end{array}$$

**Verification :** Dividend = Divisor  $\times$  Quotient + Remainder  
 $= 236 \times 119 + 233 = 28084 + 233 = 28317$

e.

$$\begin{array}{r}
 \begin{array}{l} \text{Divisor} \leftarrow \\ \leftarrow \end{array} 305 \overline{) 516098} \begin{array}{l} \rightarrow \text{Quotient} \\ \rightarrow \text{Dividend} \end{array} \\
 \underline{-305} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 2110 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-1830} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 2809 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-2745} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 648 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-610} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 38 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \rightarrow \text{Remainder}
 \end{array}$$

**Verification :** Dividend = Divisor  $\times$  Quotient + Remainder  
 $= 305 \times 1692 + 38 = 516060 + 38 = 516098$

f.

$$\begin{array}{r}
 \begin{array}{l} \text{Divisor} \leftarrow \\ \leftarrow \end{array} 287 \overline{) 689728} \begin{array}{l} \rightarrow \text{Quotient} \\ \rightarrow \text{Dividend} \end{array} \\
 \underline{-574} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 1157 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-1148} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 92 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 928 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-861} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 67 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \rightarrow \text{Remainder}
 \end{array}$$

**Verification :** Dividend = Divisor  $\times$  Quotient + Remainder  
 $= 287 \times 2403 + 67 = 689661 + 67 = 689728$

**4. Solve the following word problems :**

**Ans.** a. Number of friends = 7

Total number of coloured beads = 6892  
 Number of beads will get each friend =  $6892 \div 7$   
 Hence, 984 beads will get each friend.  
 and 4 beads are left.

$$\begin{array}{r} 984 \\ \overline{7)6892} \\ -63 \phantom{0} \\ \hline 59 \phantom{0} \\ -56 \phantom{0} \\ \hline 32 \\ -28 \\ \hline 4 \end{array}$$

b. Total number of apples = 2098

and, Number of boxes = 16

$\therefore$  Required number of apples for each box =  $2098 \div 16$   
 Hence, 131 apples there in each box and 2 apples will  
 be left over.

$$\begin{array}{r} 131 \\ \overline{16)2098} \\ -16 \phantom{0} \\ \hline 49 \phantom{0} \\ -48 \phantom{0} \\ \hline 18 \\ -16 \\ \hline 2 \end{array}$$

c. Total number of stickers = 40690

and, number of children = 40

$\therefore$  Number of stickers get each child  
 $= 40690 \div 40$   
 $= 4069 \div 4$

Hence, 1017 stickers get each child and 1 sticker will  
 be left over.

$$\begin{array}{r} 1017 \\ \overline{4)4069} \\ -4 \phantom{0} \\ \hline 00 \phantom{0} \\ -0 \phantom{0} \\ \hline 06 \\ -4 \\ \hline 29 \\ -28 \\ \hline 1 \end{array}$$

**5. Divide the following :**

**Ans.** a. We have to perform :  $5289 \div 10$

There are 1 zero in divisor. The digits at ones place become the  
 remainder and the rest of the digits will form the quotient.

$\therefore$  Quotient = 528 and remainder  $l = 9$

b. We have to perform  $7096 \div 100$

There are 2 zeros in the divisor. The digits at tens and ones place  
 become the remainder and the rest of the digits will form the quotient.

Quotient = 70 and remainder = 96

c. We have to perform  $29475 \div 1000$

There are 3 zeros in the divisor. The digits at hundreds, tens and ones  
 place will form the remainder and the rest of the digits will form the  
 quotient.

$\therefore$  Quotient = 29 and remainder = 475.



### Exercise 2.6

1. Visitors visited the trade fair on Sunday = 2,63,953

Visitors visited the trade fair on Monday = 4,33,000

Visitors visited the trade fair on Tuesday = 3,20,656

∴ Total number of visitors visited the fair in  
all three days

$$\begin{array}{r} 2\ 63\ 953 \\ 4\ 33\ 000 \\ +\ 3\ 20\ 656 \\ \hline 1\ 017\ 609 \end{array}$$

Hence, the required number of visitor are 10,17,609.

2. Number of books bought for the primary section = 12,685

Number of books bought for the middle section = 15,790

Number of books bought for the senior section = 13,698

∴ The total number of books bought for all section

Hence, the required number of books are 42,173.

$$\begin{array}{r} 12\ 685 \\ 15\ 790 \\ +\ 13\ 698 \\ \hline 42\ 173 \end{array}$$

3. Number of bricks used for Mr. Sharma's house = 1,75,692

Number of bricks used for Mr. Verma's house = 2,16,785.

∴ Mr. Verma's house required more bricks.

and required difference in bricks

Hence, the required difference in bricks are 41,093.

$$\begin{array}{r} 2\ 16\ 785 \\ -\ 1\ 75\ 692 \\ \hline 41\ 093 \end{array}$$

4. Smallest six-digit number = 100000

and, greatest five-digit number = 99999

∴ The required difference = 10000

$$\begin{array}{r} 10000 \\ -\ 99999 \\ \hline 000001 \end{array}$$

Hence, the required difference is 1.

5. Total number of blown balloons = 7,65,291

and, number of burst balloons = 79,876

∴ Number of still balloon for decorated the path =

$$\begin{array}{r} 7,65,291 \\ -\ 79,876 \\ \hline 6,85,415 \end{array}$$

Hence, the required balloons are 6,85,415.

6. Number of chocolates packed in box 'A' = 27,356

Number of chocolate packed in box 'B' = 32,058

and number of chocolates packed in box 'C' = 6,957

∴ The total number of chocolate packed in the three boxes

$$\begin{array}{r} =\ 27,356 \\ +\ 32,058 \\ \hline 66,371 \end{array}$$

Hence, the total number of chocolates packed in all are 66,371.

7. Production of dolls in the factory in a day = 1297

Number of days in a leap year = 366

∴ The total production of dolls in this year  
Hence, the total production of dolls is 4,74,702.

$$\begin{array}{r} 1297 \\ \times 366 \\ \hline 7782 \\ 77820 \\ 389100 \\ \hline \boxed{474702} \end{array}$$

8. Number of pages reads by Meera every day = 215

Number of days in 8 weeks except Sunday =  $8 \times 7 - 8 = 56 - 8 = 48$

∴ The total number of pages reads by meera in 48 days

$$\begin{array}{r} 215 \\ \times 48 \\ \hline 1720 \\ 8600 \\ \hline \boxed{10320} \end{array}$$

Hence, the required number of pages are 10,320.

9. The total number of voters are to be equally distributed in 235 polling booths =  $7,25,680 \div 235 = 3088$

Hence, the required number of voters in each polling booth are 3088.

$$\begin{array}{r} 3088 \\ 235 \overline{) 725680} \\ \underline{-705} \quad \downarrow \\ 206 \quad \downarrow \\ \underline{-0} \quad \downarrow \\ 2068 \quad \downarrow \\ \underline{-1880} \quad \downarrow \\ 1880 \quad \downarrow \\ \underline{-1880} \\ 0 \end{array}$$

10. Total number of bricks for the construction of 70 chambers = 6,95,940

∴ Required number of bricks for each chamber =  $6,95,940 \div 70$   
 $= 69594 \div 7$   
 $= 9942$

$$\begin{array}{r} 9942 \\ 7 \overline{) 69594} \\ \underline{-63} \quad \downarrow \\ 65 \quad \downarrow \\ \underline{-63} \quad \downarrow \\ 29 \quad \downarrow \\ \underline{-28} \quad \downarrow \\ 14 \quad \downarrow \\ \underline{-14} \\ 0 \end{array}$$

Hence, the required number of bricks for each chamber are 9942.

11. Total money of a fund = ₹ 8,005,788  
and number of families = 324

∴ The contribution of each family for this fund = ₹ 8,05,788 ÷ 324  
= ₹ 2487

$$\begin{array}{r}
 2487 \\
 324 \overline{) 805788} \\
 \underline{-648} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 1577 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-1296} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 2818 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-2592} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 2268 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-2268} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 0
 \end{array}$$

Hence, the contribution of each family is ₹ 2487.

12. Total number of books in the library = 25,890

Number of books bound in each day = 200

∴ Required number of days to be bound books = 25,890 ÷ 200

$$\begin{array}{r}
 129 \\
 200 \overline{) 25890} \\
 \underline{-200} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 589 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-400} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 1890 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-1800} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 90
 \end{array}$$

Hence, the required number of days are 129 and still remaining books are 90.

13. Total number of marble tiles to be packed in boxes = 38,400.

Number of marbles can be packed in one box = 480

$$= 38400 \div 48$$

$$\begin{array}{r}
 80 \\
 48 \overline{) 3840} \\
 \underline{-384} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 00 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 \underline{-0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\
 0
 \end{array}$$

∴ Hence, the required number of boxes are 80.

### MCQs

- Ans. 1. (iii)      2. (iii)      3. (iii)      4. (i)  
5. (ii)      6. (ii)      7. (i)      8. (i)