

Worksheet

1. Bihar has more population by

$$\begin{array}{r}
 \textcircled{11} \textcircled{17} \textcircled{14} \textcircled{9} \textcircled{9} \textcircled{12} \textcircled{15} \textcircled{14} \\
 \cancel{2}, \cancel{8} \cancel{5}, \cancel{0} \cancel{0}, \cancel{2} \cancel{6} \cancel{4} \\
 - 7,9502,477 \\
 \hline
 4,89,97,887
 \end{array}$$

2. Combined population of Uttar Pradesh, Uttarakhand and Himachal Pradesh is

$$\begin{array}{r}
 \textcircled{1} \quad \textcircled{1} \quad \quad \quad \textcircled{1} \textcircled{1} \\
 23,15,02,578 \\
 1,17,00,099 \\
 + \quad 75,03,010 \\
 \hline
 25,07,05,687
 \end{array}$$

3. Combined population of Manipur, Meghalaya, Mizoram, Nagaland and Tripura is 1,47,76,051.

$$\begin{array}{r}
 \textcircled{1} \textcircled{2} \textcircled{2} \textcircled{3} \textcircled{2} \textcircled{3} \\
 34,36,948 \\
 37,72,103 \\
 13,08,967 \\
 20,73,074 \\
 + \quad 41,84,959 \\
 \hline
 1,47,76,051
 \end{array}$$

Combined population of Kerala, Karnataka, Tamil Nadu and Maharashtra is 31,29,00,479.
Clearly, $31,29,00,479 > 1,47,76,051$.

$$\begin{array}{r}
 \textcircled{2} \textcircled{2} \textcircled{2} \textcircled{3} \textcircled{3} \textcircled{2} \textcircled{2} \\
 3,46,98,876 \\
 6,95,99,762 \\
 8,36,97,770 \\
 + 12,49,04,071 \\
 \hline
 31,29,00,479
 \end{array}$$

4. (a) The population of Uttar Pradesh is less than the combined population of Bihar and West Bengal — True
(b) The state of Sikkim has the least population — True

5. States are Assam, Chhattisgarh, Haryana, Jharkhand, Kerala, Odisha, Punjab, Uttarakhand and Telangana = 29,93,56,099.

$$\begin{array}{r}
 \textcircled{3} \textcircled{4} \textcircled{4} \textcircled{4} \textcircled{4} \textcircled{4} \textcircled{3} \\
 3,59,98,752 \\
 3,21,99,722 \\
 2,89,00,667 \\
 4,01,00,376 \\
 3,46,98,876 \\
 4,70,99,270 \\
 3,05,01,026 \\
 1,17,00,099 \\
 + \quad 3,81,57,311 \\
 \hline
 29,93,56,099
 \end{array}$$

6. Gujarat = 7,04,00,153 = 70,400,153 = Seventy million four hundred thousand one hundred fifty-three.

Class Work (Pg 39)

1. $42 \times 10000 = 420000$

3. $12 \times 2000 = 24000$

5. $500 \times 30000 = 15000000$

2. $165 \times 100000 = 16500000$

4. $14 \times 40000 = 560000$

6. $300 \times 90000 = 27000000$

Class Work (Pg 41)

1.

$$\begin{array}{r} 478923 \\ \times 289 \\ \hline 4310307 \\ 3831384 \\ + 957846 \\ \hline 138408747 \end{array}$$

2.

$$\begin{array}{r} 6584 \\ \times 1034 \\ \hline 26336 \\ 19752 \\ 0000 \\ + 6584 \\ \hline 6807856 \end{array}$$

3.

$$\begin{array}{r} 5098 \\ \times 7040 \\ \hline 0000 \\ 20392 \\ 00000 \\ + 35686 \\ \hline 35889920 \end{array}$$

Exercise 3B

1. (a) $845 \times 10 = 8450$

(c) $605 \times 1000 = 605000$

(e) $549 \times 100000 = 54900000$

(g) $695 \times 30 = 20850$

(b) $9572 \times 100 = 957200$

(d) $987 \times 10000 = 9870000$

(f) $237 \times 1000000 = 237000000$

(h) $732 \times 900 = 658800$

2. (a)

$$\begin{array}{r} 99706 \\ \times 73 \\ \hline 299118 \\ + 697942 \\ \hline 7278538 \end{array}$$

(b)

$$\begin{array}{r} 69725 \\ \times 846 \\ \hline 418350 \\ 278900 \\ + 557800 \\ \hline 58987350 \end{array}$$

(c)

$$\begin{array}{r} 596832 \\ \times 790 \\ \hline 000000 \\ 5371488 \\ + 4177824 \\ \hline 471497280 \end{array}$$

(d)

$$\begin{array}{r} 7851 \\ \times 6925 \\ \hline 39255 \\ 15702 \\ 70659 \\ + 47106 \\ \hline 54368175 \end{array}$$

(e)

$$\begin{array}{r} 391525 \\ \times 861 \\ \hline 391525 \\ 2349150 \\ + 3132200 \\ \hline 337103025 \end{array}$$

(f)

$$\begin{array}{r} 65839 \\ \times 6007 \\ \hline 460873 \\ 00000 \\ 00000 \\ + 395034 \\ \hline 395494873 \end{array}$$

(g)

$$\begin{array}{r} 47030 \\ \times 5600 \\ \hline 00000 \\ 00000 \\ 282180 \\ + 235150 \\ \hline 263368000 \end{array}$$

(h)

$$\begin{array}{r} 70095 \\ \times 950 \\ \hline 00000 \\ 350475 \\ + 630855 \\ \hline 66590250 \end{array}$$

3. Annual fee for 1 student =
 Total fee of 580 students =
 = ₹7,88,80,000

$$\begin{array}{r} \text{₹ } 136000 \\ \times 580 \\ \hline 000000 \\ 1088000 \\ + 680000 \\ \hline \text{₹ } 78880000 \end{array}$$

4. WhatsApp message sent in 1 day =
 WhatsApp messages sent in first
 6 months (31 + 28 + 31 + 30 + 31 + 30)
 i.e., 181 days = 10,25,365 messages

$$\begin{array}{r} 5665 \\ \times 181 \\ \hline 5665 \\ 45320 \\ + 5665 \\ \hline 1025365 \end{array}$$

5. Cost of 1 flat =
 Cost of 430 flats =
 = ₹1,71,59,40,800

$$\begin{array}{r} \text{₹ } 3990560 \\ \times 430 \\ \hline 0000000 \\ 11971680 \\ + 15962240 \\ \hline \text{₹ } 1715940800 \end{array}$$

One hundredth of the total
 cost = ₹1,71,59,40,800 $\times \frac{1}{100}$ = ₹1,71,59,408

6. (a) (378 \times 999 = 3,77,622)

Class Work (Pg 43)

1. 93895 \div 100 \Rightarrow Q = 938, R = 95
 2. 415158 \div 10000 \Rightarrow Q = 41, R = 5158
 3. 3245325 \div 1000 \Rightarrow Q = 3245, R = 325
 4. 893425 \div 100000 \Rightarrow Q = 8, R = 93425

Class Work (Pg 46)

1.

$$\begin{array}{r} 2259 \\ 23 \overline{) 51958} \\ \underline{- 46} \\ 59 \\ \underline{- 46} \\ 135 \\ \underline{- 115} \\ 208 \\ \underline{- 207} \\ 1 \end{array}$$

Quotient = 2259
 Remainder = 1

2.

$$\begin{array}{r} 5025 \\ 312 \overline{) 1567892} \\ \underline{- 1560} \\ 789 \\ \underline{- 624} \\ 1652 \\ \underline{- 1560} \\ 92 \end{array}$$

Quotient = 5025
 Remainder = 92

3.

$$\begin{array}{r} 5009 \\ 937 \overline{) 4693475} \\ \underline{- 4685} \\ 8475 \\ \underline{- 8433} \\ 42 \end{array}$$

Quotient = 5009
 Remainder = 42

Exercise 3C

1. (a) 2504 \div 1 = 2504
 (b) 42679 \div 42679 = 1
 (c) 0 \div 51090 = 0

5. Number of bricks = $\frac{1}{2}$ million = 500,000

Bricks in 1 heap = 95

Number of heaps = $500,000 \div 95 = 5263$ complete heaps
and 15 bricks are leftover

$$\begin{array}{r}
 5263 \\
 95 \overline{) 500000} \\
 \underline{- 475} \\
 250 \\
 \underline{- 190} \\
 600 \\
 \underline{- 570} \\
 300 \\
 \underline{- 285} \\
 15
 \end{array}$$

Quotient = 5263

Remainder = 15

6. Total words = 43,070

Words in 1 page = 118

Number of pages = $43,070 \div 118 = 365$ pages

$$\begin{array}{r}
 365 \\
 118 \overline{) 43070} \\
 \underline{- 354} \\
 767 \\
 \underline{- 708} \\
 590 \\
 \underline{- 590} \\
 0
 \end{array}$$

7. Total students = 11,676

Seats = 417

Film should be shown $11,676 \div 417 = 28$ times

$$\begin{array}{r}
 28 \\
 417 \overline{) 11676} \\
 \underline{- 834} \\
 3336 \\
 \underline{- 3336} \\
 0
 \end{array}$$

8. $99999999 \div 999 \Rightarrow$ Quotient = 100100, Remainder = 99

9. (d) $(412720 \div 385 = 1072)$

10. (c) $(10,04,416 \div 532 = 1888)$

Class Work (Pg 47)

1. $148935 \rightarrow 100000$
 $+ 695121 \rightarrow + 700000$
800000

2. $324218 \rightarrow 320000$
 $- 63156 \rightarrow - 60000$
260000

3. $570051 \rightarrow 600000$
 $- 247845 \rightarrow - 200000$
400000

4. $65356 \rightarrow 65000$
 $2916 \rightarrow 3000$
 $+ 25782 \rightarrow + 26000$
94000

5. (c) $(2,00,000 - 1,00,000 = 1,00,000)$

Exercise 3D

1. (a) $23 \times 52 \rightarrow 20 \times 50 = 1000$

(b) $7 \times 312 \rightarrow 7 \times 300 = 2100$

(c) $62 \times 88 \rightarrow 60 \times 90 = 5400$

(d) $731 \times 47 \rightarrow 700 \times 50 = 35000$

2. (a) $38 \rightarrow 40$ (b) $45 \rightarrow 50$

$\times 7 \rightarrow \times 7$ $\times 67 \rightarrow \times 70$

$$\begin{array}{r} \underline{\underline{280}} \end{array}$$

$$\begin{array}{r} \underline{\underline{3500}} \end{array}$$

(c) $225 \rightarrow 200$

(d) $62 \rightarrow 60$

$\times 8 \rightarrow \times 8$

$\times 78 \rightarrow \times 80$

$$\begin{array}{r} \underline{\underline{1600}} \end{array}$$

$$\begin{array}{r} \underline{\underline{4800}} \end{array}$$

(c) $26 \rightarrow 30$ (f) $602 \rightarrow 600$

$\times 725 \rightarrow \times 700$ $\times 145 \rightarrow \times 100$

$$\begin{array}{r} \underline{\underline{21000}} \end{array}$$

$$\begin{array}{r} \underline{\underline{60000}} \end{array}$$

3. (c) $(1,00,000 \times 10 = 1,000,000 = 1 \text{ million})$

Class Work (Pg 49)

1. (a) $4 \overline{)331} \rightarrow 4 \overline{) \begin{array}{r} 80 \\ 320 \\ -320 \\ \hline \end{array}}$

(b) $46 \overline{)487} \rightarrow 50 \overline{) \begin{array}{r} 10 \\ 500 \\ -500 \\ \hline \end{array}}$

(c) $44 \overline{)1571} \rightarrow 40 \overline{) \begin{array}{r} 40 \\ 1600 \\ -1600 \\ \hline \end{array}}$

(d) $65 \overline{)2218} \rightarrow 70 \overline{) \begin{array}{r} 30 \\ 2100 \\ -2100 \\ \hline \end{array}}$

2. (a) $7 \overline{)283} \rightarrow 7 \overline{) \begin{array}{r} 40 \\ 280 \\ -280 \\ \hline \end{array}}$

(b) $6 \overline{)314} \rightarrow 6 \overline{) \begin{array}{r} 50 \\ 300 \\ -300 \\ \hline \end{array}}$

(c) $7 \overline{)6217} \rightarrow 7 \overline{) \begin{array}{r} 900 \\ 6300 \\ -6300 \\ \hline \end{array}}$

(d) $85 \overline{)7242} \rightarrow 90 \overline{) \begin{array}{r} 80 \\ 7200 \\ -7200 \\ \hline \end{array}}$

Mental Maths

1. Adding $5015 + 250 = 5265 \div 9 = 585$

2. Product of $3,200 \times 20 = 64,000$

3. $6500 \div 13 = 500$

4. $60 + 60 = 120$

5. Product = $80,000 \times 900 = 72000000$

Indian System = $7,20,00,000 = \text{Seven crore twenty lakh}$

International System = $72,000,000 = \text{Seventy-two million}$

6. $3667 \div 6$ gives remainder 1

7. Number of sacks required = $2800 \text{ kg} \div 70 \text{ kg} = 40$ sacks

8. $21000 \div 70$ (successor of 69) = 300

Chapter Test

- $5,76,83,104 + 1200 = 5,76,84,304$
- Mr Agarwal has ₹1,50,000
Cost of 65 mango saplings = ₹2457 × 65 = ₹1,59,705
No, he needs ₹1,59,705 - ₹1,50,000 = ₹9,705 more
- Dividend = $63 \times 857 + 27 = 54018$
- (a) $31406 + 19756 \rightarrow 30000 + 20000 = 50000 \therefore 50000 > 40000$
(b) $104993 - 72813 = 100000 - 70000 = 30000 \therefore 30000 < 50000$
(c) $496 \times 612 \rightarrow 500 \times 600 = 300000, \therefore 300000 > 200000$
(d) $82917 \div 12 \rightarrow 80000 \div 10 < 10000$
- (c) (Total land area = $98,26,675 \text{ km}^2 + 95,96,961 \text{ km}^2 + 32,87,263 \text{ km}^2 = 2,27,10,899 \text{ km}^2$)
- (c)
- (d) (Total cost = ₹34,59,640 × 40 = ₹13,83,85,600)
- (b) ($50 \times 50000 = 25,00,000 =$ Twenty-five lakh)
- (b) ($5,00,00,000 - 49,00,00,000 = 1,00,00,000 = 1$ million)
- Total fund = ₹12,16,000
Orphanages = 8
One orphanage receives ₹12,16,000 ÷ 8 = ₹1,52,000
value → Helping the needy.

$$\begin{array}{r} 2457 \\ \times 65 \\ \hline 12285 \\ + 14742 \\ \hline 159705 \end{array}$$

$$\begin{array}{r} 152000 \\ 8 \overline{) 1216000} \\ \underline{- 8} \\ 41 \\ \underline{- 40} \\ 16 \\ \underline{- 16} \\ \hline \times \end{array}$$

Challenge!

- Total seats in a theatre = 1600
Seats in 5 rows = $20 \times 5 = 100$
Remaining seats = $1600 - 100 = 1500$. Remaining rows = $65 - 5 = 60$
Number of seats in remaining rows = $1500 \div 60 = 25$ seats

Worksheet

- $$\begin{array}{r} 96987350 \text{ (I)} \\ - 65400988 \\ \hline 31586362 \end{array}$$
- $$\begin{array}{r} 28369 \text{ (Y)} \\ \times 407 \\ \hline 198583 \\ 000000 \\ \hline 113476 \\ \hline 11546183 \end{array}$$
- $$\begin{array}{r} 58390874 \text{ (M)} \\ + 26429586 \\ \hline 84820460 \end{array}$$
- $$\begin{array}{r} 9007 \text{ (L)} \\ 8402 \overline{) 75676814} \\ \underline{- 75618} \\ 58814 \\ \underline{- 58814} \\ \hline \times \end{array}$$
- $$\begin{array}{r} 70610 \text{ (K)} \\ \times 5098 \\ \hline 564880 \\ 635490 \\ 00000 \\ \hline + 353050 \\ \hline 359969780 \end{array}$$
- $$\begin{array}{r} 64240000 \text{ (W)} \\ - 52882407 \\ \hline 11357593 \end{array}$$



7. $800 \times 30000 = 24000000$ (Y)

8. $\begin{array}{r} 7447 \text{ (A)} \\ 9583 \overline{) 71364601} \\ \underline{- 67081} \\ 42836 \\ \underline{- 38332} \\ 45040 \\ \underline{- 38332} \\ 67081 \\ \underline{- 67081} \\ \hline \end{array}$

Name of Galaxy
= MILKY WAY