# RS Aggarwal Solutions for Class 6 Maths Chapter 1–Number System

Class 6 - Chapter 1 Number System

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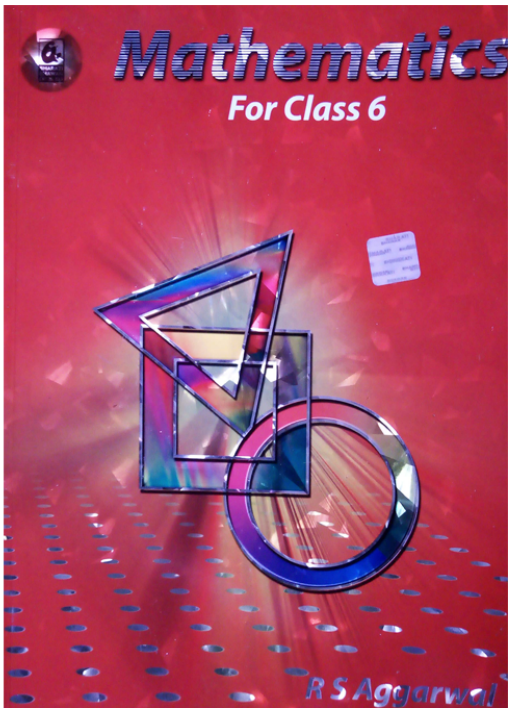


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# RS Aggarwal Solutions for Class 6 Maths Chapter 1–Number System

Class 6: Maths Chapter 1 solutions. Complete Class 6 Maths Chapter 1 Notes.

**RS Aggarwal Solutions for Class 6 Maths Chapter 1–Number System**

RS Aggarwal 6th Maths Chapter 1, Class 6 Maths Chapter 1 solutions

**Ex 1A Solutions**

**Question 1.**

**Solution:**

(i) Nine thousand eighteen = 9,018.

(ii) Fifty four thousand seventy three = 54,073

(iii) Three lakh two thousand five hundred six = 3,02,506.

(iv) Twenty lakh ten thousand eight = 20,10,008.

(v) Six crore five lakh fifty-seven = 6,05,00,057.

(vi) Two crore two lakh two thousand two hundred two = 2,02,02,202.

(vii) Twelve crore twelve lakh twelve thousand twelve = 12,12,12,012.

(viii) Fifteen crore fifty lakh twenty thousand sixty-eight = 15,50,20,068.

**Question 2.**

**Solution:**

(i) 63,005 = Sixty three thousand five.

(ii)7,07,075 = Seven lakh, seven thousand seventy five.

(iii) 34,20,019 = Thirty-four lakh twenty thousand nineteen.

(iv) 3,05,09,0.12 = Three crore, five lakh, nine thousand twelve.

(v) 5,10,03,604 = Five crore ten lakh three thousand six hundred four.

(vi) 6,18,05,008 = Six crore eighteen lakh five thousand eight.

(vii) 19,09,09,900 = Nineteen crore nine lakh, nine thousand nine hundred.

(viii) 6,15.30,807 = Six crore fifteen lakh, thirty thousand eight hundred seven.

(ix) 6,60,60,060 = Six crore sixty lakh sixty thousand sixty. Ans.

**Question 3.**

**Solution:**

(i) 15,768 = (1 x 10000) + (5 x 1000) + (7 x 100) + (6 x 10) + (8 x 1)

(ii) 3,08,927 = (3 x 100000) + (8 x 1000) + (9 x 100) +(2 x 10) +(7 x 1)

(iii) 24,05,609 = (2 x 1000000) + (4 x 100000) + (5 x 1000) + (6 x 100) + (9 x 1)

(iv) 5,36,18,493 = (5 x 10000000) + (3 x 1000000) + (6 x 100000) + (1 x 10000) + (8 x 1000) + (4 x 100) + (9 x 10) + (3 x 1)

(v) 6,06,06,006 = (6 x 10000000) + (6 x 100000) + (6 x 1000) + (6 x 1)

(vi) 9,10,10,510 = (9 x 10000000) + (1 x 1000000) + (1 x 10000) + (5 x 100) + (1 x 10) Ans,

**Question 4.**

**Solution:**

(i) 6 x 10000 + 2 x 1000 + 5 x 100 + 8 x 10 + 4 x 1

= 60000 + 2000 + 500 + 80 + 4

= 62,584.

(ii) 5 x 100000 + 8 x 10000 + 1 x 1000 + 6 x 100 + 2 x 10 + 3 x 1

= 500000 + 80000 + 1000 + 600 + 20 + 3

= 5,81,623

(iii) 2 x 10000000 + 5 x 100000 + 7 x 1000 + 9 x 100 + 5 x 1

= 20000000 + 500000 + 7000 + 900 + 5

= 2,05,07,905

(iv) 3 x 1000000 + 4 x 100000 + 6 x 1000 + 5 x 100 + 7 x 1

= 3000000 + 400000 + 6000 + 500 + 7

= 34,06,507 Ans.

**Question 5.**

**Solution:**

In 79520986

Value of first 9 = 9000000

and value of second 9 = 900

Difference = 9000000 – 900

= 89,99,100 Ans.

**Question 6.**

**Solution:**

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In 27650934

place value of 7 = 7000000

and face value of 7 = 7

Difference = 7000000 – 7

= 6999993 Ans.

**Question 7.**

**Solution:**

There are 900000 6-digits numbers in all

i.e. 999999 – 99999

= 900000 Ans

**Question 8.**

**Solution:**

There are 9999999 – 999999

= 9000000 7-digits numbers in all.

**Question 9.**

**Solution:**

In 1,00,000, there are 100 thousands. Ans.

**Question 10.**

**Solution:**

In 10000,000, there are 10000 thousands.

**Question 11.**

**Solution:**

Given Number = 738

Reversing its digits = 837

Difference between 738 and 837

= 837 – 738

= 99 Ans.

**Question 12.**

**Solution:**

Numbers after 9547999

= 9547999 + 1

= 9548000 Ans.

**Question 13.**

**Solution:**

Number first before 9900000

= 9900000 – 1

= 9899999 Ans.

**Question 14.**

**Solution:**

Number first before 10000000

= 10000000 – 1

= 9999999 Ans.

**Question 15.**

**Solution:**

3-digits numbers using 2, 3, 4 taking each digit only once will be

234, 243, 324, 342, 423, 432 Ans.

**Question 16.**

**Solution:**

The smallest number by using different digits 3, 1, 0, 5 and 7 will be

= 10357 Ans.

**Question 17.**

**Solution:**

The largest number formed by using different digits 2, 4, 0, 3, 6 and 9 will be

= 964320. Ans.

**Question 18.**

**Solution:**

| | HM | TM | M | HTh | TTh | Th | H | T | O |
|---|---|---|---|---|---|---|---|---|---|
| (*i*) 735821 | | | | 7 | 3 | 5 | 8 | 2 | 1 |
| (*ii*) 6057894 | | | 6 | 0 | 5 | 7 | 8 | 9 | 4 |
| (*iii*) 56943821 | | 5 | 6 | 9 | 4 | 3 | 8 | 2 | 1 |
| (*iv*) 37502093 | | 3 | 7 | 5 | 0 | 2 | 0 | 9 | 3 |
| (*v*) 89350064 | | 8 | 9 | 3 | 5 | 0 | 0 | 6 | 4 |
| (*vi*) 90703006 | | 9 | 0 | 7 | 0 | 3 | 0 | 0 | 6 |

(i) Seven hundred thirty five thousand eight hundred twenty-one.

(ii) Six million fifty seven thousand eight hundred ninety-four.

(iii) Fifty-six million nine hundred forty-three thousand eight hundred twenty-one.

(iv) Thirty-seven million five hundred two thousand ninety-three.

(v) Eighty-nine million three hundred fifty thousand sixty-four.

(vi) Ninety million seven hundred three thousand and six. Ans.

**Question 19.**

**Solution:**

Place-Value Chart

| | Millions | | | Thousands | | | Ones | | |
|---|---|---|---|---|---|---|---|---|---|
| | Hundred million | Tens million | Million | Hundred thousand | Ten thousand | Thousand | Hundred | Tens | Ones |
| (*i*) | | 3 | 0 | 1 | 0 | 5 | 0 | 6 | 3 |
| (*ii*) | | 5 | 2 | 2 | 0 | 5 | 0 | 0 | 6 |
| (*iii*) | | | 5 | 0 | 0 | 5 | 0 | 0 | 5 |

**OBJECTIVE QUESTIONS**

**Tick the correct answer in each of the following :**

**Question 20.**

**Solution:**

(c) Because 6 is at lakh place.

**Question 21.**

**Solution:**

(a) Because face value is always same.

**Question 22.**

**Solution:**

(b) Because place value and face value of 5 in 87653421 are 50000 and 5.

difference

= 50000 – 5

= 49995.

**Question 23.**

**Solution:**

(b) Smallest counting number or natural number is 1.

**Question 24.**

**Solution:**

(b) Number of 4-digits numbers

= 9999 – 999 (i.e. these are 1000 to 9999)

= 9000

**Question 25.**

**Solution:**

(b) Number of 7-digit numbers (from 1000000 to 9999999)

= 9999999 – 999999

= 9000000

**Question 26.**

**Solution:**

(c) Numbers of 8-digit numbers (from 10000000 to 99999999)

= 99999999 – 9999999

= 90000000

**Question 27.**

**Solution:**

(b) Because 1000000 – 1

= 999999 Ans.

**Ex 1B Solutions**

**Fill in each of the following boxes with the correct symbol > or < :**

**Question 1.**

**Solution:**

1003467 $\boxed{>}$ 987965

**Question 2.**

**Solution:**

3572014 $\boxed{<}$ 10235401

**Question 3.**

**Solution:**

3254790 $\boxed{<}$ 3260152

**Question 4.**

**Solution:**

10357690 $\boxed{<}$ 11243567

**Question 5.**

**Solution:**

27596381 $\boxed{>}$ 7965412

**Question 6.**

**Solution:**

47893501 $\boxed{<}$ 47894021

**Arrange the following numbers in the descending order :**

**Question 7.**

**Solution:**

102345680 > 63521047 > 63514759 > 7355014 > 7354206

**Question 8.**

**Solution:**

23794206 > 23756819 > 5032790 > 5032786 > 987876

**Question 9.**

**Solution:**

16060666 > 16007777 > 1808090 > 1808088 > 190909 > 181888

**Question 10.**

**Solution:**

1712040 > 1704382 > 1702497 > 201200 > 200175 > 199988.

**Arrange the following numbers in the ascending order**

**Question 11.**

**Solution:**

990357 < 9873426 < 9874012 < 24615019 < 24620010

**Question 12.**

**Solution:**

5694437 < 5695440 < 56943201 < 56943300 < 56944000

**Question 13.**

**Solution:**

700087 < 8014257 < 8014306 < 8015032 < 10012458

**Question 14.**

**Solution:**

893245 < 893425 < 980134 < 1020216 < 1020304 < 1021403

**Ex 1C Solutions**

**Question 1.**

**Solution:**

Number of persons in the first year = 13789509

Number of persons in the second year = 12976498

Total number of persons in the two years =13789509 +12976498

= 26766007 Ans.

**Working :**

$$\begin{array}{r} 13789509 \\ +12976498 \\ \hline 26766007 \\ \hline \end{array}$$

**Question 2.**

**Solution:**

Number of sugar bags in the first factory = 24809565

Number of sugar bags in the second factory = 18738576

Number of sugar bags in the third factory = 9564568

Total number of sugar bags in the three factories

= 24809565 + 18738576 + 9564568

= 53112709 bags Ans.

**Working :**

$$\begin{array}{r} 24809565 \\ +18738576 \\ +\ 9564568 \\ \hline 53112709 \\ \hline \end{array}$$

**Question 3.**

**Solution:**

The given number = 37684955

The number which exceeds the given number by 3615045 will be

= 37684955 + 3615045

= 41300000 Ans.

**Working :**

$$\begin{array}{r} 37684955 \\ +\ 3615045 \\ \hline 41300000 \\ \hline \end{array}$$

**Question 4.**

**Solution:**

Number of votes received by the first candidate = 687905

Number of votes received by the second candidate = 495086

Number of votes received by the third candidate = 93756

Number of invalid votes = 13849

Number of persons who did not vote = 25467

Total number of registered votes = 687905 + 495086 + 93756 + 13849 + 25467

= 1316063 Ans.

**Working :**

$$\begin{array}{r} 687905 \\ +495086 \\ +93756 \\ +13849 \\ +25467 \\ \hline 1316063 \end{array}$$

**Question 5.**

**Solution:**

Number of people who got primary education = 1623546

Number of people who got secondary education = 9768678

Number of people who got higher education = 6837954

Number of illiterate people = 2684536

Number of children below the age of admission = 698781

Total population of the state = 1623546 + 9768678 + 6837954 + 2684536 + 698781

= 21613495 Ans.

**Working :**

$$\begin{array}{r} 1623546 \\ +9768678 \\ +6837954 \\ +2684536 \\ +698781 \\ \hline 21613495 \end{array}$$

**Question 6.**

**Solution:**

In the first year, number of cycles produced = 8765435

In the second year, number of cycles produced = 8765435 + 1378689

= 10144124

The number of bicycles produced in the two years = 8765435 + 10144124

= 18909559 Ans.

**Working :**

$$\begin{array}{r} 8765435 \\ +1378689 \\ \hline 10144124 \\ +8765435 \\ \hline 18909559 \end{array}$$

**Question 7.**

**Solution:**

Sale receipt during first year = Rs. 20956480

Sale receipt during the second year = Rs. 20956480 + Rs. 6709570

= Rs. 27666050

Total sale receipt during the two years = Rs. 20956480 + Rs.27666050

= Rs. 48622530 Ans

**Working :**

$$\begin{array}{r} 20956480 \\ +\ 6709570 \\ \hline 27666050 \\ +20956480 \\ \hline 48622530 \\ \hline \end{array}$$

**Question 8.**

**Solution:**

Total population of a city = 28756304

Number of males = 16987059

Number of females = 28756304 – 16987059

= 11769245 Ans.

**Working :**

$$\begin{array}{r} 28756304 \\ -16987059 \\ \hline 11769245 \\ \hline \end{array}$$

**Question 9.**

**Solution:**

The number 13246510 is larger than 4658642

= 13246510 – 4658642

= 8587868 Ans.

**Working :**

$$\begin{array}{r} 13246510 \\ -4658642 \\ \hline 8587868 \\ \hline \end{array}$$

**Question 10.**

**Solution:**

5643879 is smaller than one crore

= 10000000 – 5643879

= 4356121 Ans.

**Working :**

$$\begin{array}{r} 10000000 \\ -5643879 \\ \hline 4356121 \\ \hline \end{array}$$

**Question 11.**

**Solution:**

To, get the required number, we should subtract 2635967 from 11010101

= 11010101 – 2635967

= 8374134 Ans.

**Working :**

$$\begin{array}{r} 11010101 \\ -2635967 \\ \hline 8374134 \\ \hline \end{array}$$

**Question 12.**

**Solution:**

Sum of two numbers = 10750308

First number = 8967519

Second number = 10750308 – 8967519

= 1782789 Ans.

**Working :**

$$\begin{array}{r} 10750308 \\ -8967519 \\ \hline 1782789 \\ \hline \end{array}$$

**Question 13.**

**Solution:**

Total money, a man had = Rs 20000000

Amount spent on buying a school building = Rs. 13607085

Amount left with him

= Rs. 20000000 – Rs. 13607085

= Rs. 6392915 Ans.

**Working :**

$$\begin{array}{r} 20000000 \\ -13607085 \\ \hline 6392915 \\ \hline \end{array}$$

**Question 14.**

**Solution:**

The total requirement of a society = Rs. 18536000

Amount of fee collection = Rs. 7253840

Amount of loan taken = Rs. 5675450

Amount of donation = Rs. 2937680

Total amount collected = Rs. 7253840 + Rs. 5675450 + Rs. 2937680

= Rs. 15866970

Short amount

= Rs. 18536000 – Rs. 15866970

= Rs. 2669030 Ans.

**Working :**

$$
\begin{array}{r}
7253840 \\
+5675450 \\
+2937680 \\
\hline
15866970 \\
\hline
18536000 \\
-15866970 \\
\hline
2669030 \\
\hline
\end{array}
$$

**Question 15.**

**Solution:**

Total amount a man had = Rs. 10672540

Amount given to his wife = Rs. 4836980

Amount given to his son = Rs 3964790

Total amount given to wife and son = Rs. 4836980 + Rs 3964790

= Rs. 8801770

**Working :**

$$
\begin{array}{r}
4836980 \\
+3964790 \\
\hline
8801770 \\
\hline
\end{array}
$$

Balance amount given to his daughter

= Rs. 10672540 – Rs. 8801770

= Rs. 1870770 Ans.

**Working :**

$$\begin{array}{r} 10672540 \\ -8801770 \\ \hline 1870770 \end{array}$$

**Question 16.**

**Solution:**

Cost of one chair = Rs. 1485

Cost of 469 chairs = Rs. 1485 x 469

= Rs. 696465 Ans.

**Working :**

$$\begin{array}{r} 1485 \\ \times 469 \\ \hline 13365 \\ 8910\times \\ 5940\times\times \\ \hline 696465 \end{array}$$

**Question 17.**

**Solution:**

Collection from one student = Rs. 625

Collection from 1786 students = Rs. 1786 x 625

= Rs. 1116250 Ans.

**Working :**

$$\begin{array}{r} 1786 \\ \times 625 \\ \hline 8930 \\ 3572\times \\ 10716\times\times \\ \hline 1116250 \end{array}$$

**Question 18.**

**Solution:**

Number of screws produced in one day = 6985

Number of screws produced in 358 days = 6985 x 358

= 2500630 Ans.

**Working :**

$$\begin{array}{r} 6985 \\ \times 358 \\ \hline 55880 \\ 34925\times \\ 20955\times\times \\ \hline 2500630 \end{array}$$

**Question 19.**

**Solution:**

Number of months in one year = 12

Number of months in 13, years = 12 x 13



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= 156

months Saving in one month = Rs. 8756

Saving in 156 months = Rs. 8756 x 156

= Rs. 1365936 Ans.

**Working :**

$$\begin{array}{r} 8756 \\ \times 156 \\ \hline 52536 \\ 43780\times \\ 8756\times\times \\ \hline 1365936 \end{array}$$

**Question 20.**

**Solution:**

Cost of 1 scooter = Rs. 36725

Cost of 487 scooters = Rs. 36725 x 487

= Rs. 17885075 Ans.

**Working :**

$$\begin{array}{r} 36725 \\ \times 487 \\ \hline 257075 \\ 293800\times \\ 146900\times\times \\ \hline 17885075 \end{array}$$

**Question 21.**

**Solution:**

Distance covered in 1 hour = 1485 km

Distance covered in 72 hours = 1485 x 72 km

= 106920 km Ans.

**Working :**

$$\begin{array}{r} 1485 \\ \times\ 72 \\ \hline 2970 \\ 10395\times \\ \hline 106920 \end{array}$$

**Question 22.**

**Solution:**

Product of two numbers = 13421408

First number = 364

Second number = 13421408 ÷ 364

= 36872 Ans.

**Working :**

```
        36872
     ------------
364 ) 13421408
      1092
      ----
       2501
       2184
       ----
        3174
        2912
        ----
         2620
         2548
         ----
          728
          728
          ---
           ×
          ---
```

**Question 23.**

**Solution:**

Cost of 36 flats = Rs. 68251500

Cost of one flat

= Rs. 68251500 ÷ 36

= Rs. 1895875 Ans.

**Working :**

```
      1895875
    ___________
36 ) 68251500
       36
     ------
       322
       288
     ------
        345
        324
     ------
         211
         180
       ------
          315
          288
       ------
           270
           252
         ------
            180
            180
         ------
              ×
```

**Question 24.**

**Solution:**

Mass of cylinder with gas = 30 kg 250 g and mass of empty cylinder = 14 kg 480 g

Mass of gas = 30 kg, 250 g – 14 kg, 480 g

= 15 kg, 770 g Ans.

**Working :**

30 kg, 250 g

– 14 kg, 480 g

15 kg, 770 g

**Question 25.**

**Solution:**

Total length of cloth = 5 m

Length of piece cut off = 2 m 85 cm

Length of remaining piece of cloth = 5 m – 2 m 85 cm

= 2 m 15 cm Ans.

**Working :**

5 m 00 cm

– 2 m 85 cm

2 m 15 cm

**Question 26.**

**Solution:**

Cloth required for 1 shirt = 2 m 75 cm

Cloth required for 16 shirts = 2 m 75 cm x 16

= 44 m Ans.

**Question 27.**

**Solution:**

Total length of cloth for 8 trousers = 14 m 80 cm

Length of cloth for 1 trouser = 14 m 80 cm ÷ 8

= 1 m 85 cm Ans.

**Working :**

$$8 \overline{)\ 14\text{m } 80\text{cm}\ (\ 1\text{m } 85\text{cm}}$$

$$\begin{array}{r} 8 \\ \hline 68 \\ 64 \\ \hline 40 \\ 40 \\ \hline \times \\ \hline \end{array}$$

**Question 28.**

**Solution:**

Mass of 1 brick = 2 kg 750 g

Total mass of 14 bricks = 2 kg 750 g x 14

= 38 kg 500 g Ans.

**Working :**

$$\begin{array}{rr} & 2 \text{ kg } 750 \text{ g} \\ \times & 14 \\ \hline & 38 \text{ kg } 500 \text{ g} \\ \hline \end{array}$$

**Question 29.**

**Solution:**

Total mass of 8 packets = 10 kg 600 g

Mass of one packet = 10 kg 600 ÷ 8

= 1 kg 325 g Ans.

**Working :**

$$
\begin{array}{r|l}
8 & 10\text{kg } 600\text{g} \\
\cline{2-2}
 & 1\text{ kg } 325\text{ g} \\
\hline
8 & \\
\hline
26 & \\
24 & \\
\hline
20 & \\
16 & \\
\hline
40 & \\
40 & \\
\hline
\times &
\end{array}
$$

**Question 30.**

**Solution:**

Total length of rope = 10 m

No of pieces = 8

Length of each piece = 10 m ÷ 8

= 1 m 25 cm Ans.

**Working :**

$$8 \overline{)\ 10\text{ m}} \ (\ 1\text{ m }25\text{ cm}$$

$$\begin{array}{r} 8 \\ \hline 20 \\ 16 \\ \hline 40 \\ 40 \\ \hline \times \\ \hline \end{array}$$

**Ex 1D Solutions**

**Question 1.**

**Solution:**

(a) 40

(b) 170

(c) 3870

(d) 16380

**Question 2.**

**Solution:**

(a) 800

(b) 1300

(c) 43100

(d) 98200

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**Question 3.**

**Solution:**

(a) 1000

(b) 5000

(c) 17000

(d) 28000

**Question 4.**

**Solution:**

(a) 20000

(b) 30000

(c) 30000

(d) 270000

**Estimate each sum to the nearest ten :**

**Question 5.**

**Solution:**

(57 + 34)

57 estimated to the nearest ten = 60

34 estimated to the nearest ten = 30

Required sum = 60 + 30

= 90 Ans.

**Question 6.**

**Solution:**

(43 + 78)

43 estimated to the nearest ten = 40

78 estimated to the nearest ten = 80

Required sum = 40 + 80

= 120 Ans.

**Question 7.**

**Solution:**

(14 + 69)

14 estimated to the nearest ten = 10

69 estimated to the nearest ten = 70

Required sum = 10 + 70

= 80 Ans.

**Question 8.**

**Solution:**

(86 +19)

86 estimated to the nearest ten = 90

19 estimated to the nearest ten = 20

Required sum = 90 + 20

= 110 Ans.

**Question 9.**

**Solution:**

(95 + 58)

95 estimated to the nearest ten =100

58 estimated to the nearest ten = 60

Required sum = 100 + 60

= 160 Ans

**Question 10.**

**Solution:**

77 estimated to the nearest ten = 80

63 estimated to the nearest ten = 60

Required sum = 80 + 60

= 140 Ans.

**Question 11.**

**Solution:**

(356 + 275)

356 estimated to the nearest ten = 360

275 estimated to the nearest ten = 280

Required sum = 360 + 280

= 640 Ans.

**Question 12.**

**Solution:**

463 + 182

463 estimated to the nearest ten = 460

182 estimated to the nearest ten = 180

Required sum = 460 + 180

= 640 Ans.

**Question 13.**

**Solution:**

(538 + 276)

538 estimated to the nearest ten = 540

276 estimated to the nearest ten = 280

Required sum = 540 + 280

= 820 Ans.

**Estimate each sum to the nearest hundred:**

**Question 14.**

**Solution:**

(236 + 689)

236 estimated to the nearest hundred = 200

689 estimated to the nearest hundred = 700

Required sum = 200 + 700

= 900 Ans.

**Question 15.**

**Solution:**

(458 + 324)

458 estimated.to the nearest hundred = 500

324 estimated to the nearest hundred = 300

Required sum = 500 + 300

= 800 Ans.

**Question 16.**

**Solution:**

(170 + 395)

170 estimated to the nearest hundred = 200

395 estimated to the nearest hundred = 400

Required sum = 200 + 400

= 600 Ans.

**Question 17.**

**Solution:**

(3280 + 4395)

3280 estimated to the nearest hundred = 3300

4395 estimated to the nearest hundred = 4400

Required sum = 3300 + 4400

= 7700 Ans.

**Question 18.**

**Solution:**

(5130 + 1410)

5130 estimated to the nearest hundred = 5100

1410 estimated to the nearest hundred = 1400

Required sum = 5100 + 1400

= 6500 Ans.

**Question 19.**

**Solution:**

(10083 + 29380)

10083 estimated to the nearest hundred =10100

29380 estimated to the nearest hundred = 29400

Required sum = 10100 + 29400

= 39500 Ans.

**Estimate each sum to the nearest thousand :**

**Question 20.**

**Solution:**

(32836 + 16466)

32836 estimated to the nearest thousand = 33000

16466 estimated to the nearest thousand = 16000

Required sum = 33000 + 16000

= 49000 Ans.



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**Question 21.**

**Solution:**

(46703 + 11375)

46703 estimated to the nearest thousand = 47000

11375 estimated to the nearest thousand = 11000

Required sum = 47000 + 11000

= 58000 Ans.

**Question 22.**

**Solution:**

54 balls + 79 balls

54 balls estimated to the nearest 10 = 50

79 balls estimated to the nearest 10 = 80

Required total number of balls = 50 + 80 + 130 Ans.

Estimate each difference to the nearest ten :

**Question 23.**

**Solution:**

(53 – 18)

53 estimated to the nearest ten = 50

18 estimated to the nearest ten = 20

Difference of 50 and 20

= 50 – 20

= 30 Ans.

**Question 24.**

**Solution:**

(97 – 38)

97 estimated to the nearest ten =100

38 estimated to the nearest ten = 40

Difference of 100 and 40

= 100 – 40

= 60 Ans.

**Question 25.**

**Solution:**

(409 – 148)

409 estimated to the nearest ten = 410

148 estimated to the nearest ten = 150

Difference of 410 and 150

= 410 – 150

= 260 Ans.

**Estimate each difference to the nearest hundred :**

**Question 26.**

**Solution:**

(678 – 215)

678 estimated to the nearest hundred = 700

215 estimated to the nearest hundred = 200

Difference between 700 and 200

= 700 – 200

= 500 Ans.

**Question 27.**

**Solution:**

(957 – 578)

957 estimated to the nearest hundred = 1000

578 estimated to the nearest hundred = 600

Difference between 1000 and 600

= 1000 – 600

= 400 Ans.

**Question 28.**

**Solution:**

(7258 – 2429)

7258 estimated to the nearest hundred = 7300

2429 estimated to the nearest hundred = 2400

Difference between 7300 and 2400

= 7300 – 2400

= 4900 Ans.

**Question 29.**

**Solution:**

5612 estimated to the nearest hundred = 5600

3095 estimated to the nearest hundred = 3100

Difference between 5600 and 3100

= 5600 – 3100

= 2500 Ans.

**Estimate each difference to the nearest thousand :**

**Question 30.**

**Solution:**

35863 estimated to the nearest thousand = 36000

27677 estimated to the nearest thousand = 28000

Difference between 36000 and 28000

= 36000 – 28000

= 8000 Ans.

**Question 31.**

**Solution:**

(47005 – 39488)

47005 estimated to the nearest thousand = 47000

39488 estimated to the nearest thousand = 39000

Difference between 47000 and 39000

= 47000 – 39000

= 8000 Ans.

**Ex 1E Solutions**

**Estimate each of the following products by rounding off each number to the nearest ten.**

**Question 1.**

**Solution:**

(38 x 63)

38 estimated to the nearest ten = 40

63 estimated to the nearest ten = 60

∴ 40 x 60

= 2400 Ans.

**Question 2.**

**Solution:**

(54 x 47)

54 estimated to the nearest ten = 50

47 estimated to the nearest ten = 50

∴ 50 x 50

= 2500 Ans.

**Question 3.**

**Solution:**

(28 x 63)

28 estimated to the nearest ten = 30

63 estimated to the nearest ten = 60

∴ 30 x 60

= 1800 Ans.

**Question 4.**

**Solution:**

(42 x 75)

42 estimated to the nearest ten = 40

75 estimated to the nearest ten = 80

∴ 40 x 80

= 3200 Ans.

**Question 5.**

**Solution:**

(64 x 58)

64 estimated to the nearest ten = 60

58 estimated to the nearest ten = 60

∴ 60 x 60

= 3600 Ans.

**Question 6.**

**Solution:**

(15 x 34)

15 estimated to the nearest ten = 20

34 estimated to the nearest ten = 30

∴ 20 x 30

= 600 Ans.

**Estimate each of the following products by rounding off each number to the nearest hundred :**

**Question 7.**

**Solution:**

(376 x 123)

376 estimated to the nearest hundred = 400

123 estimated to the nearest hundred = 100

∴ 400 x 100

= 40000 Ans.

**Question 8.**

**Solution:**

(264 x 147)

264 estimated to the nearest hundred = 300

147 estimated to the nearest hundred = 100

∴ 300 x 100

= 30000 Ans.

**Question 9.**

**Solution:**

423 x 158)

423 estimated to the nearest hundred = 400

158 estimated to the nearest hundred = 200

∴ 400 x 200

= 80000 Ans.

**Question 10.**

**Solution:**

(509 x 179)

509 estimated to the nearest hundred = 500

179 estimated to the nearest hundred = 200

∴ 500 x 200

= 100000 Ans.

**Question 11.**

**Solution:**

(392 x 138)

392 estimated to the nearest hundred = 400

138 estimated to the nearest hundred = 100

∴ 400 x 100

= 40000 Ans.

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**Question 12.**

**Solution:**

(271 x 339)

271 estimated to the nearest hundred = 300

339 estimated to the nearest hundred = 300

∴ 300 x 300

= 90000 Ans.

**Estimate each of the following products by rounding off the first number upwards and the second number downwards:**

**Question 13.**

**Solution:**

(183 x 154)

183 is rounded off upwards = 200

154 is rounded off downwards = 100

∴ 200 x 100

= 20000 Ans.

**Question 14.**

**Solution:**

(267 x 146)

267 is rounded off upwards = 300

146 is rounded off downwards = 100

∴ 300 x 100

= 30000 Ans.

**Question 15.**

**Solution:**

(359 x 76)

359 is rounded off upwards = 400

76 is rounded off downwards = 70

∴ 400 x 70

= 28000 Ans.

**Question 16.**

**Solution:**

(472 x 158)

472 is rounded off upwards = 500

158 is rounded off downwards = 100

∴ 500 x 100

= 50000 Ans.

**Question 17.**

**Solution:**

(680 x 164)

680 is rounded off upwards = 700

164 is rounded off downwards = 100

∴ 700 x 100

= 70000 Ans.

**Question 18.**

**Solution:**

(255 x 350)

255 is rounded off upwards = 300

350 is rounded off downwards = 300

∴ 300 x 300

= 90000 Ans.

**Estimate each of the following products by rounding off the first number downwards and the second number upwards:**

**Question 19.**

**Solution:**

(356 x 278)

356 is rounded off downwards = 300

278 is rounded off upwards = 300

∴ 300 x 300

= 90000 Ans.

**Question 20.**

**Solution:**

(472 x 76)

472 is rounded off downwards = 400

76 is rounded off upwards = 80

∴ 400 x 80

= 32000 Ans.

**Question 21.**

**Solution:**

(578 x 369)

578 is rounded off downwards = 500

369 is rounded off upwards = 400

∴ 500 x 400

= 200000 Ans.

**Ex 1F Solutions**

**Find the estimated quotient for each of the following :**

**Question 1.**

**Solution:**

87 ÷ 28

87 is estimated to the nearest ten = 90

28 is estimated to the nearest ten = 30

∴ 90 ÷ 30

= 3 Ans.

**Question 2.**



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**Solution:**

83 ÷ 17

83 is estimated to the nearest ten = 80

17 is estimated to the nearest ten = 20

∴ 80 ÷ 20

= 4 Ans.

**Question 3.**

**Solution:**

75 ÷ 23

75 is estimated to the nearest ten = 80

23 is estimated to the nearest ten = 20

∴ 80 ÷ 20

= 4 Ans.

**Question 4.**

**Solution:**

193 ÷ 24

193 is estimated to the nearest ten = 200

24 is estimated to the nearest ten = 20

∴ 200 ÷ 20

= 10 Ans.

**Question 5.**

**Solution:**

725 ÷ 23

725 is estimated to the nearest hundred = 700

23 is estimated to the nearest ten = 20

∴700 ÷ 20

= 35 Ans.

**Question 6.**

**Solution:**

275 ÷ 25

275 is estimated to the nearest hundred = 300

25 is estimated to the nearest ten = 30

∴ 300 ÷ 30

= 10 Ans.

**Question 7.**

**Solution:**

633 ÷ 33

633 is estimated to the nearest hundred = 600

33 is estimated to the nearest ten = 30

∴ 600 ÷ 30

= 20 Ans.

**Question 8.**

**Solution:**

729 ÷ 29

729 is estimated to the nearest hundred = 700

29 is estimated to the nearest ten = 30

∴ 700 ÷ 30

= 70 ÷ 3

= 23 (approximately) Ans.

**Question 9.**

**Solution:**

858 ÷ 39

858 is estimated to the nearest hundred = 900

39 is estimated to the nearest ten = 40

∴ 900 ÷ 40

= 90 ÷ 4

= 23 (approximately) Ans

**Question 10.**

**Solution:**

868 ÷ 38

868 is estimated to the nearest hundred = 900

38 is estimated to the nearest ten = 40

∴ 900 ÷ 40



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= 90 ÷ 4

= 23 (approximately) Ans.

**Ex 1G Solutions**

**Question 1.**

**Solution:**

(i) 2 = II

(ii) 8 = VIII

(iii) 14 = XIV

(iv) 29 = XXIX

(v) 36= XXXVI

(vi) 43 = XLIII

(vii) 54 = LIV

(viii) 61 = LXI

(ix) 73 = LXXIII

(x) 81 = LXXXI

(xi) 91 = XCI

(xii) 95 XCV

(xiii) 99= XCIX

(xiv) 105 CV

(xv) 114 = CXIV

**Question 2.**

**Solution:**

(i) 164 = CLXIV

(ii) 195 = CXCV

(iii) 226 = CCXXVI

(iv) 341 = CCCXLI

(v) 475 = CDLXXV

(vi) 596 = DXCVI

(vii) 611 = DCXI

(viii) 759 = DCCLIX

**Question 3.**

**Solution:**

(i) XXVII = 27

(ii) XXXIV = 34

(iii) XLV = 45

(iv) LIV = 54

(v) LXXIV = 74

(vi) XCI = 91

(vii) XCVI = 96

(viii) CXI = 111

(ix) CLIV = 154

(x) CCXXIV = 224

(xi) CCCLXV = 365

(xii) CDXIV = 414

(xiii) CDLXIV = 464

(xiv) DVI = 506

(xv) DCCLXVI = 766

**Question 4.**

**Solution:**

(i) V is never subtracted

∴ VC is wrong

(ii) I can be subtracted from V and X only

∴ IL is wrong

(iii) V, L, D are never repeated

∴ VVII is wrong

(iv) IX cannot occur to the left of X

∴ IXX is wrong

**Ex 1H Solutions**

**Objective questions**

**Mark against the correct answer in each of the following**

**Question 1.**

**Solution:**

(c) Place value of 6 in 48632950 is 600000



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**Question 2.**

**Solution:**

(a) Face value of 4 in the numeral 89247605 is 4

(∴ Face value does not alter)

**Question 3.**

**Solution:**

(c) The place of 5 in the numeral 78653421 is 50000 and face value is 5

∴ Difference between 50000 and 5 = 49995

**Question 4.**

**Solution:**

(b) The smallest counting number is 1

**Question 5.**

**Solution:**

(b) 4-digit numbers are 1000 to 9999

=> 9999 – 999

= 9000

**Question 6.**

**Solution:**

(b) 7-digit numbers are from 1000000 to 9999999 or 9999999 – 999999

= 9000000

**Question 7.**

**Solution:**

(c) 8-digit numbers are to 99999999 99999999 – 9999999

= 90000000

**Question 8.**

**Solution:**

The number before 1000000 will be 1000000 – 1 = 999999 (b)

**Question 9.**

**Solution:**

(a) VX is not meaningful as V does not come before X

**Question 10.**

**Solution:**

(c) IC is not meaningful as I comes before V and X only

**Question 11.**

**Solution:**

(b) XVV is not meaningful as V does not comes more than once.

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He was born on January 2, 1946 in a village of Delhi. He graduated from Kirori Mal College, University of Delhi. After completing his M.Sc. in Mathematics in 1969, he joined N.A.S. College, Meerut, as a lecturer. In 1976, he was awarded a fellowship for 3 years and joined the University of Delhi for his Ph.D. Thereafter, he was promoted as a reader in N.A.S. College, Meerut. In 1999, he joined M.M.H. College, Ghaziabad, as a reader and took voluntary retirement in 2003. He has authored more than 75 titles ranging from Nursery to M. Sc. He has also written books for competitive examinations right from the clerical grade to the I.A.S. level.

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