

Q.B. Find the quotient and the remainder:

⑤ $8,53,792 \div 124$
 Solution:
 $6885 \leftarrow Q$
 $124 \overline{) 853792}$
 $\underline{-744}$
 1097
 $\underline{-992}$
 1059
 $\underline{-992}$
 672
 $\underline{-620}$
 $52 \leftarrow R$

- $124 \times 1 = 124$
- $124 \times 2 = 248$
- $124 \times 3 = 372$
- $124 \times 4 = 496$
- $124 \times 5 = 620$
- $124 \times 6 = 744$
- $124 \times 7 = 868$
- $124 \times 8 = 992$
- $124 \times 9 = 1116$
- $124 \times 10 = 1240$

$Q = 6885$
 $R = 52$
 Ans

⑬ $43,51,628 \div 436$
 Solution:
 $9980 \leftarrow Q$
 $436 \overline{) 4351628}$
 $\underline{-3924}$
 4276
 $\underline{-3924}$
 3522
 $\underline{-3488}$
 348
 $\underline{-000}$
 $348 \leftarrow R$

- $436 \times 1 = 436$
- $436 \times 2 = 872$
- $436 \times 3 = 1308$
- $436 \times 4 = 1744$
- $436 \times 5 = 2180$
- $436 \times 6 = 2616$
- $436 \times 7 = 3052$
- $436 \times 8 = 3488$
- $436 \times 9 = 3924$
- $436 \times 10 = 4360$

$Q = 9980$
 $R = 348$
 Ans

Q.C. Divide:

(1) The smallest 5-digit number by the greatest 2-digit number and check the answer.

Solution:

The smallest 5-digit number = 10,000

The greatest 2-digit number = 99

Q → 101

$$\begin{array}{r}
 99 \overline{) 10000} \leftarrow \text{Dividend} \\
 \underline{99} \\
 100 \\
 \underline{99} \\
 R \rightarrow 1
 \end{array}$$

Divisor 10

↑ = 99

Q = 101
R = 1

Ans

VERIFICATION

$$\begin{array}{r}
 101 \leftarrow \text{Quotient} \\
 \times 99 \leftarrow \text{Divisor} \\
 \hline
 909 \\
 9090 \\
 \hline
 9999 \\
 + 1 \leftarrow \text{Remainder} \\
 \hline
 10,000 \leftarrow \text{Dividend}
 \end{array}$$

∴ Dividend = Q × Divisor + R Hence, the division is correct.

(2) Solution:

The greatest 6-digit number = 999999

The greatest 2-digit number = 99

Q → 10101

$$\begin{array}{r}
 99 \overline{) 999999} \\
 \underline{99} \\
 9 \\
 \underline{0} \\
 99 \\
 \underline{99} \\
 9 \\
 \underline{0} \\
 99 \\
 \underline{99} \\
 R \rightarrow 0
 \end{array}$$

Q = 10101
R = 0

Ans

(3) Solution:

The smallest 6-digit number = 100000

The greatest 2-digit number = 99

Q → 1010

$$\begin{array}{r}
 99 \overline{) 100000} \\
 \underline{99} \\
 10 \\
 \underline{00} \\
 100 \\
 \underline{99} \\
 10 \\
 \underline{00} \\
 R \rightarrow 10
 \end{array}$$

Q = 1010
R = 10

Ans

Q.5. Solution:

a) \therefore Cost of 150 almirahs = ₹12,81,450

b) \therefore Cost of 1 almirah = ₹12,81,450 \div 150
= ₹8543 Ans

c) Hence, cost of 1 almirah is ₹8543.

$$\begin{array}{r} \text{₹ } 8543 \\ 150 \overline{) 1281450} \\ \underline{- 1200} \\ 814 \\ \underline{- 750} \\ 645 \\ \underline{- 600} \\ 450 \\ \underline{- 450} \\ 0 \end{array}$$

Q.6. Solution: Step-I

a) \therefore 1 hour = 60 minutes

b) \therefore 12 hours = 12 \times 60 = 720 minutes

Step-II

c) \therefore No. of words a typist
types in 720 minutes = 80,64,000

d) \therefore No. of words he will
type in 1 minute = 80,64,000 \div 720
= 11,200 Ans

e) Hence, the typist will type 11,200 words in 1 minute.

$$\begin{array}{r} 11200 \\ 720 \overline{) 8064000} \\ \underline{- 720} \\ 864 \\ \underline{- 720} \\ 1440 \\ \underline{- 1440} \\ 0 \\ \underline{- 0} \\ 0 \end{array}$$

Q.7. Solution:

a) No. of 500-rupee notes

one can get for ₹32,64,000 = 32,64,000 \div 500
= 6528 Ans

$$\begin{array}{r} 6528 \\ 500 \overline{) 3264000} \\ \underline{- 3000} \\ 2640 \\ \underline{- 2500} \\ 1400 \\ \underline{- 1000} \\ 4000 \\ \underline{- 4000} \\ 0 \end{array}$$

b) Hence, one can get 6528, five hundred-rupee notes for ₹32,64,000.

Q.8. Solution:

a) The product of two numbers = 29,45,442

b) One of the numbers = 562

c) \therefore The other number = $29,45,442 \div 562$
= 5241 Ans

d) Hence, the other number is 5241.

$$\begin{array}{r}
 5241 \\
 562 \overline{) 2945442} \\
 \underline{- 2810} \\
 1354 \\
 \underline{- 1124} \\
 2304 \\
 \underline{- 2248} \\
 562 \\
 \underline{- 562} \\
 0
 \end{array}$$

Q.9. Solution:

a) Amount of money distributed among 215 farmers equally = ₹ 5,00,638

b) Share of each farmer = $₹ 5,00,638 \div 215$
= ₹ 2328 Ans i

$$\begin{array}{r}
 ₹ \quad 2328 \leftarrow Q \\
 215 \overline{) ₹ 500638} \\
 \underline{- 430} \\
 706 \\
 \underline{- 645} \\
 613 \\
 \underline{- 430} \\
 1838 \\
 \underline{- 1720} \\
 R \rightarrow 118
 \end{array}$$

c) Amount of money left = ₹ 118 Ans ii

d) Hence, ₹ 2328 is the share of each farmer and ₹ 118 is left.

Q.10. Solution:

a) Dividend = 13,16,352

b) Quotient = 256

c) \therefore Divisor = $13,16,352 \div 256$
= 5142 Ans

d) Hence, the divisor is 5142.

$$\begin{array}{r}
 5142 \\
 256 \overline{) 1316352} \\
 \underline{- 1280} \\
 363 \\
 \underline{- 256} \\
 1075 \\
 \underline{- 1024} \\
 512 \\
 \underline{- 512} \\
 0
 \end{array}$$