



Exercise 3E

Q12

Answer :

Least six-digit number = 100000

Here, dividend = 100000 and divisor = 83

$$\begin{array}{r}
 1204 \\
 83 \overline{) 99932} \\
 \underline{83} \\
 169 \\
 \underline{166} \\
 332 \\
 \underline{332} \\
 0
 \end{array}$$

In order to find a number exactly divisible by 83, we have to subtract the remainder from the dividend.

i.e., $100000 - 68 = 99932$

So, 99932 is the least six-digit number exactly divisible by 83.

$$\begin{array}{r}
 1204 \\
 83 \overline{) 99932} \\
 \underline{-83} \\
 169 \\
 \underline{-166} \\
 332 \\
 \underline{-332} \\
 0
 \end{array}$$

Q13

Answer :

Cost of 1 dozen bananas = Rs 29

Number of dozens purchased for Rs 1392 = $1392 \div 29$

$$\begin{array}{r}
 48 \\
 29 \overline{) 1392} \\
 \underline{116} \\
 232 \\
 \underline{-232} \\
 0
 \end{array}$$

Hence, 48 dozen of bananas can be purchased with Rs. 1392.

Q14

Answer :

Number of trees planted in 157 rows = 19625

Trees planted in 1 row = $19625 \div 157$

$$\begin{array}{r} 125 \\ 157 \overline{) 19625} \\ \underline{- 157} \\ 392 \\ \underline{- 314} \\ 785 \\ \underline{- 785} \\ 0 \end{array}$$

\therefore 125 trees are planted in each row.

Q15

Answer :

Population of the town = 517530

$\left(\frac{1}{15}\right)$ of the population is reported to be literate, i.e., $\left(\frac{1}{15}\right) \times 517530 = 517530 \div 15$

$$\begin{array}{r} 34502 \\ 15 \overline{) 517530} \\ \underline{- 45} \\ 67 \\ \underline{- 60} \\ 75 \\ \underline{- 75} \\ 030 \\ \underline{- 30} \\ 0 \end{array}$$

\therefore There are 34502 illiterate persons in the given town.

Q16

Answer :

Cost price of 23 colour TV sets = Rs 5,70,055

Cost price of 1 TV set = Rs 570055 ÷ 23

$$\begin{array}{r} 24785 \\ 23 \overline{) 570055} \\ \underline{-46} \\ 110 \\ \underline{-92} \\ 180 \\ \underline{-161} \\ 195 \\ \underline{-184} \\ 115 \\ \underline{-115} \\ 0 \end{array}$$

∴ The cost price of one TV set is Rs 24,785.

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