



### Exercise 3E

Q1

**Answer :**

(i)

$$\begin{array}{r} 53 \\ 36 \overline{)1936} \\ \underline{-180} \phantom{00} \\ 136 \\ \underline{-108} \phantom{00} \\ 28 \end{array}$$

Dividend = 1936, Divisor = 36 , Quotient = 53 , Remainder = 28

Check: Divisor  $\times$  Quotient + Remainder =  $36 \times 53 + 28$

$$= 1936$$

$$= \text{Dividend}$$

Hence, Dividend = Divisor  $\times$  Quotient + Remainder

Verified.

(ii)  $19881 \div 47$

$$\begin{array}{r} 423 \\ 47 \overline{)19881} \\ \underline{-188} \phantom{00} \\ 108 \\ \underline{-94} \phantom{00} \\ 141 \\ \underline{-141} \phantom{00} \\ 0 \end{array}$$

Dividend = 19881, Divisor = 47 , Quotient = 423, Remainder = 0

Check: Divisor  $\times$  Quotient + Remainder =  $47 \times 423 + 0$

$$= 19881$$

$$= \text{Dividend}$$

Hence, Dividend = Divisor  $\times$  Quotient + Remainder

Verified.

(iii)

$$\begin{array}{r} 756 \\ 341 \overline{) 257796} \\ \underline{-2387} \phantom{0} \\ 1909 \phantom{0} \\ \underline{-1705} \phantom{0} \\ 2046 \phantom{0} \\ \underline{-2046} \\ 0 \end{array}$$

Dividend = 257796 , Divisor = 341 , Quotient = 756 , Remainder = 0

Check : Divisor  $\times$  Quotient + Remainder =  $341 \times 756 + 0$

$$= 257796$$

$$= \text{Dividend}$$

Hence, Dividend = Divisor  $\times$  Quotient + Remainder

Verified.

(iv)  $612846 \div 582$

$$\begin{array}{r} 1053 \\ 582 \overline{) 612846} \\ \underline{-582} \phantom{00} \\ 3084 \phantom{0} \\ \underline{-2910} \phantom{0} \\ 1746 \phantom{0} \\ \underline{-1746} \\ 0 \end{array}$$

Dividend = 612846 , Divisor = 582, Quotient = 1053 , Remainder = 0

Check : Divisor  $\times$  Quotient + Remainder =  $582 \times 1053 + 0$

$$= 612846$$

$$= \text{Dividend}$$

Hence, Dividend = Divisor  $\times$  Quotient + Remainder

Verified.

(v)  $34419 \div 149$

$$\begin{array}{r}
 231 \\
 149 \overline{)34419} \\
 \underline{-298} \phantom{0} \\
 461 \\
 \underline{-447} \\
 149 \\
 \underline{-149} \\
 0
 \end{array}$$

Dividend = 34419, Divisor = 149, Quotient = 231, Remainder = 0

Check : Divisor  $\times$  Quotient + Remainder =  $149 \times 231 + 0$

$$= 34419$$

= Dividend

Hence, Dividend = Divisor  $\times$  Quotient + Remainder

Verified.

(vi)  $39039 \div 1001$

$$\begin{array}{r}
 39 \\
 1001 \overline{)39039} \\
 \underline{-3003} \phantom{0} \\
 9009 \\
 \underline{-9009} \\
 0
 \end{array}$$

Dividend = 39039, Divisor = 1001, Quotient = 39, Remainder = 0

Check : Divisor  $\times$  Quotient + Remainder =  $1001 \times 39 + 0$

$$= 39039$$

= Dividend

Hence, Dividend = Divisor  $\times$  Quotient + Remainder

Verified.

Q2

**Answer :**

(i)  $6971 \div 47$

$$\begin{array}{r} 148 \\ 47 \overline{) 6971} \\ \underline{-47} \phantom{1} \\ 227 \\ \underline{-188} \phantom{1} \\ 391 \\ \underline{-376} \phantom{1} \\ 15 \end{array}$$

Quotient = 148 and Remainder = 15

$$\begin{aligned} \text{Check: Divisor} \times \text{Quotient} + \text{Remainder} &= 47 \times 148 + 15 \\ &= 6971 \\ &= \text{Dividend} \end{aligned}$$

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

Verified.

(ii)  $4178 \div 35$

$$\begin{array}{r} 119 \\ 35 \overline{) 4178} \\ \underline{-35} \phantom{1} \\ 67 \\ \underline{-35} \phantom{1} \\ 328 \\ \underline{-315} \phantom{1} \\ 13 \end{array}$$

Dividend = 119 and Remainder = 13

$$\begin{aligned} \text{Check: Divisor} \times \text{Quotient} + \text{remainder} &= 35 \times 119 + 13 \\ &= 4178 \\ &= \text{Dividend} \end{aligned}$$

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

Verified.

(iii)  $36195 \div 153$

$$\begin{array}{r} 236 \\ 153 \overline{) 36195} \\ \underline{- 306} \phantom{00} \\ 559 \phantom{00} \\ \underline{- 459} \phantom{00} \\ 1005 \phantom{00} \\ \underline{- 918} \phantom{00} \\ 87 \end{array}$$

Quotient = 236 and Remainder = 87

$$\begin{aligned} \text{Check: Divisor} \times \text{Quotient} + \text{Remainder} &= 153 \times 236 + 87 \\ &= 36195 \\ &= \text{Dividend} \end{aligned}$$

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

Verified.

(iv)  $93575 \div 400$

$$\begin{array}{r} 233 \\ 400 \overline{) 93575} \\ \underline{- 800} \phantom{00} \\ 1357 \phantom{00} \\ \underline{- 1200} \phantom{00} \\ 1575 \phantom{00} \\ \underline{- 1200} \phantom{00} \\ 375 \end{array}$$

Quotient = 233 and Remainder = 375

$$\begin{aligned} \text{Check: Divisor} \times \text{Quotient} + \text{Remainder} &= 400 \times 233 + 375 \\ &= 93575 \\ &= \text{Dividend} \end{aligned}$$

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

Verified.

(v)  $23025 \div 1000$

$$\begin{array}{r}
 23 \\
 1000 \overline{) 23025} \\
 \underline{- 2000} \phantom{00} \\
 3025 \\
 \underline{- 3000} \\
 25
 \end{array}$$

Quotient = 23 and remainder = 25

$$\begin{aligned}
 \text{Check: Divisor} \times \text{Quotient} + \text{Remainder} &= 1000 \times 23 + 25 \\
 &= 23025 \\
 &= \text{Dividend}
 \end{aligned}$$

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

Verified.

(vi)  $16135 \div 875$

$$\begin{array}{r}
 18 \\
 875 \overline{) 16135} \\
 \underline{- 875} \phantom{00} \\
 7385 \\
 \underline{- 7000} \\
 385
 \end{array}$$

Quotient = 18 and Remainder = 385

$$\begin{aligned}
 \text{Check: Divisor} \times \text{Quotient} + \text{Remainder} &= 875 \times 18 + 385 \\
 &= 16135 \\
 &= \text{Dividend}
 \end{aligned}$$

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

Verified.

\*\*\*\*\* END \*\*\*\*\*