



### Exercise 3E

Q3

**Answer :**

(i)  $65007 \div 1 = 65007$

(ii)  $0 \div 879 = 0$

(iii)  $981 + 5720 \div 10$

$= 981 + (5720 \div 10)$

(Following DMAS property)

$= 981 + 572$

$= 1553$

(iv)  $1507 - (625 \div 25)$

(Following BODMAS property)

$= 1507 - 25$

$= 1482$

(v)  $32277 \div (648 - 39)$

(Following BODMAS property)

$= 32277 \div (609)$

$= 53$

(vi)  $(1573 \div 1573) - (1573 \div 1573)$

(Following BODMAS property)

$= 1 - 1$

$= 0$

Q4

**Answer :**

Given:  $n \div n = n$

$$\Rightarrow \frac{n}{n} = n$$

$$\Rightarrow n = n^2$$

i.e., the whole number  $n$  is equal to  $n^2$ .

$\therefore$  The given whole number must be 1.

Q5

**Answer :**

Let  $x$  and  $y$  be the two numbers.

Product of the two numbers  $= x \times y = 504347$

If  $x = 317$ , we have:

$$317 \times y = 504347$$

$$\Rightarrow y = 504347 \div 317$$

$$\begin{array}{r} 1591 \\ 317 \overline{) 504347} \\ \underline{-317} \phantom{00} \\ 1873 \phantom{00} \\ \underline{-1585} \phantom{00} \\ 2884 \phantom{00} \\ \underline{-2853} \phantom{00} \\ 317 \phantom{00} \\ \underline{-317} \phantom{00} \\ 0 \end{array}$$

$$y = 1591$$

$\therefore$  The other number is 1591.

**Answer :**

Dividend = 59761, quotient = 189, remainder = 37 and divisor = ?

Dividend = divisor  $\times$  quotient + remainder

$$\Rightarrow 59761 = \text{divisor} \times 189 + 37$$

$$\Rightarrow 59761 - 37 = \text{divisor} \times 189$$

$$\Rightarrow 59724 = \text{divisor} \times 189$$

$$\Rightarrow \text{Divisor} = 59724 \div 189$$

$$\begin{array}{r} 316 \\ 189 \overline{) 59724} \\ \underline{-567} \phantom{00} \\ 302 \phantom{00} \\ \underline{-189} \phantom{00} \\ 1134 \phantom{00} \\ \underline{-1134} \phantom{00} \\ 0 \end{array}$$

Hence, divisor = 316

Q7

**Answer :**

Here, Dividend = 55390, Divisor = 299 and Remainder = 75

We have to find the quotient.

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

$$\Rightarrow 55390 = 299 \times \text{Quotient} + 75$$

$$\Rightarrow 55390 - 75 = 299 \times \text{Quotient}$$

$$\Rightarrow 55315 = 299 \times \text{Quotient}$$

$$\Rightarrow \text{Quotient} = 55315 \div 299$$

$$\begin{array}{r} 185 \\ 299 \overline{) 55315} \\ \underline{-299} \phantom{00} \\ 2541 \phantom{00} \\ \underline{-2392} \phantom{00} \\ 1495 \phantom{00} \\ \underline{-1495} \phantom{00} \\ 0 \end{array}$$

Hence, quotient = 185

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